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1994

Huntingdon
Engineering and
Environmental
Hazardous Mine
Opening
Maintenance
Project, DSL/AMRB

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FINAL REPORT

HAZARDOUS MINE OPENING
MAINTENANCE PROJECT
DSL/AMRB PROJECT NO. 93-M08

PLEASE RETURN

Huntingdon
Consulting Engineers Environmental Scientists

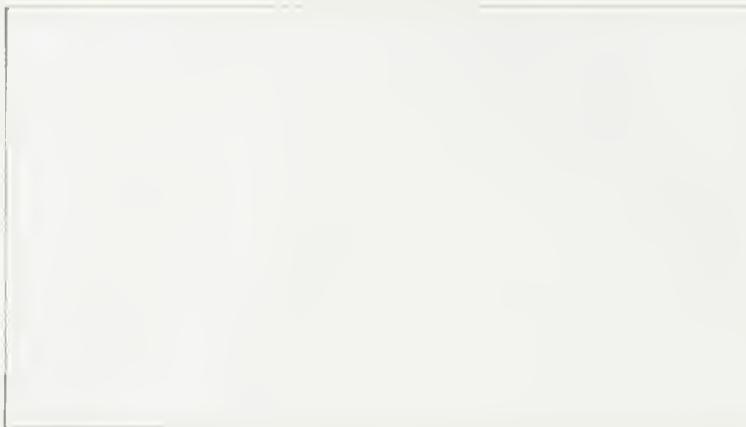


Chen-Northern, Inc., Division

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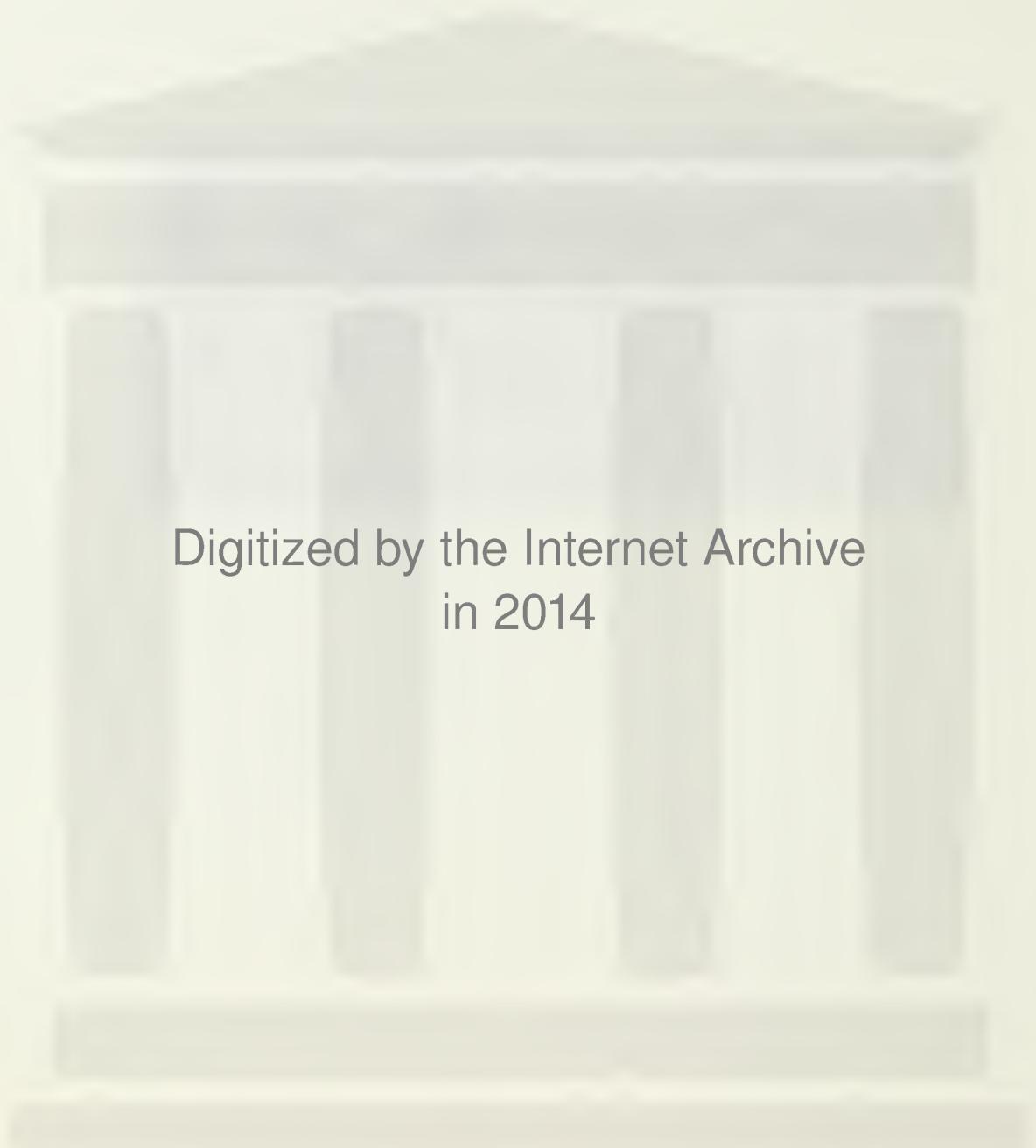
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FINAL REPORT

**HAZARDOUS MINE OPENING
MAINTENANCE PROJECT
DSL/AMRB PROJECT NO. 93-M08**



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FINAL REPORT

HAZARDOUS MINE OPENING MAINTENANCE PROJECT DSL/AMRB PROJECT NO. 93-M08

Prepared for:

Montana Department of State Lands
Abandoned Mine Reclamation Bureau

Prepared by:

Huntingdon Engineering and Environmental
P.O. Box 4699
1610 B Street
Helena, Montana 59604

July 1994

July 12, 1994

Mr. Joel Chavez
Department of State Lands
Reclamation Division
Abandoned Mine Reclamation Bureau
P.O. Box 201601
Helena, Montana 59620-1601

RE: Hazardous Mine Opening Maintenance Project - Final Report

Dear Joel:

This letter report summarizes construction activities completed during the Hazardous Mine Opening Maintenance Project in Deer Lodge, Jefferson, and Lewis and Clark counties, Montana. Construction activities summarized herein were completed between May 4, 1994 and June 3, 1994 in accordance with the construction bid package issued by the AMRB on October 20, 1993. This final report constitutes the final deliverable required by Task Order No. 12 of Contract No. DSL/AMRB 002.

Project Background

In 1990, Huntingdon Engineering and Environmental (formerly Chen-Northern, Inc.) completed a statewide maintenance inventory on mine openings that were reclaimed by the Abandoned Mine Reclamation Bureau (AMRB) during the period of 1984 to 1990. As a result of this inventory, sites requiring maintenance were identified along with the type of maintenance work needed. During the summer of 1993, the AMRB contacted owners of the maintenance sites and offered to mitigate any maintenance hazards by backfilling the respective mine openings where possible. Owners of approximately 11 sites responded to AMRB's offer.



Site Description and Locations

The sites included in the Hazardous Mine Opening Maintenance Project are located on private lands at eleven locations in west central Montana. All mine openings included in this project are associated with hardrock mining. These sites were originally reclaimed by the AMRB between 1983 and 1990 and the work completed during this project is considered as maintenance.

Table 1 lists the Problem Area Number (PA #), county and mining district, previous project name or number, year in which original work was constructed, and the type of maintenance performed for each site in the project. Locations are shown on the site maps contained in Attachment A. Table 2 lists the landowner for each site.

Description of Reclamation Contract

Bid documents were prepared and advertised for bid during September 1993. A pre-bid conference was held on Wednesday, October 13, 1993 at the Montana Department of State Lands in Helena. A VHS video was presented to acquaint prospective bidders with site conditions since it was not practical for most contractors to visit each site. The video presentation included a narrative describing site access and construction considerations for specified reclamation.

Montana Department of State Lands personnel publicly opened bids for the project on October 20, 1993. The three lowest bids are presented below. Complete bid tabulation results are presented in Attachment B.

• Scott Construction, Inc.	\$ 22,887.50
• DeBuff Drilling Co.	\$ 27,775.00
• Baxter Construction, Co.	\$ 33,675.00

Table 1
Hazardous Mine Operating Maintenance Project
DSL/AMRB Project No. 93-M08

PA # ⁽¹⁾	County/District	Site Name	Site No.	Previous Project/Date ⁽²⁾	Original Work Done	Orig. Qty. ⁽³⁾	Maintenance Work Done	Maint. Qty. ⁽³⁾	Maint. Date	Maint. Cost
22-258	Jefferson/Colorado	Bar Ed (NE NE Sec. 29)	258-1	Phase 26 1989-90	Culvert	1 EA	Backfill	300 CY	5/5/94	1,410.00
22-289	Jefferson/Colorado	Bunker Hill	289-1	Phase 26 1989-90	Blast	1 EA	Adit Seal	1 EA	5/5/94	425.00
22-006	Jefferson/Clancy	Cole-Liverpool	6-1	Phase 3 1983-84	Fence	270 LF	Backfill	340 CY	5/12/94	1,598.00
			6-2	Phase 3 1983-84	Fence	110 LF	Backfill	115 CY	5/10/94	540.50
			6-3	Phase 3 1983-84	Fence	230 LF	Backfill	1,160 CY	5/18/94	5,452.00
			6-4	Phase 3 1983-84	Fence	300 LF	Backfill	475 CY	5/10/94	2,232.50
			6-5	Phase 3 1983-84	Fence	120 LF	Backfill	120 CY	5/18/94	564.00
			6-6	Phase 3 1983-84	Fence	100 LF	Backfill	40 CY	5/10/94	188.00
			6-7	Phase 3 1983-84	Fence	300 LF	Backfill	265 CY	5/11/94	1,245.50
			6-8	Add'l Site	N/A	N/A	Backfill	12 CY	5/12/94	56.40
			6-9	Add'l Site	N/A	N/A	Backfill	400 CY	5/19/94	1,880.00
25-044	Lewis & Clark/Helena	Contention	44-1	Phase 20 1987	Backfill	2 CY	Backfill	5 CY	6/2/94	23.50
25-190	Lewis & Clark/Helena	Grizzly Gulch (NE SW Sec. 36)	190-1	Phase 26 1989-90	Cable Net	1 EA	Repair	1 EA	6/2/94	LS

(1) PA # = Problem Area Number

(2) Add'l Site = Site added to project; no previous reclamation work done; EA = Each; LS = Lump Sum - all repair items completed by Contractor for \$ 700.00.

(3) LF = Lineal Feet; CY = cubic yard; LS = Lump Sum - all repair items completed by Contractor for \$ 700.00.

Table 1
Hazardous Mine Opening Maintenance Project
DSL/AMRB Project No. 93-M08

PA # ⁽¹⁾	County/District	Site Name	Site No.	Previous Project/Date ⁽²⁾	Original Work Done	Orig. Qty. ⁽³⁾	Maintenance Work Done	Maint. Qty. ⁽³⁾	Maint. Date	Maint. Cost
22-086	Jefferson/Alhambra	Haynes	86-1	Phase 3 1983-84	Fence	280 LF	Backfill	120 CY	5/24/94	564.00
			86-2	Phase 3 1983-84	Fence	120 LF	Backfill	120 CY	5/25/94	564.00
			86-3	Phase 3 1983-84	Adit Door	1 EA	Backfill	35 CY	5/23/94	164.50
			86-4	Add'l Site	N/A	N/A	Backfill	71 CY	5/26/94	333.70
22-116	Jefferson/Lowland	Kit Carson	116-1	Phase 20 1987	Backfill	200 CY	Backfill	30 CY	5/31/94	141.00
			116-2	Phase 20 1987	Backfill	200 CY	Backfill	40 CY	5/31/94	188.00
			116-3	Phase 20 1987	Backfill	75 CY	Backfill	5 CY	5/31/94	23.50
			94-1	Phase 20 1987	Fence	132 LF	Backfill	170 CY	5/17/94	799.00
22-094	Jefferson/Clancy	Madsen (Moonlight)	94-2	Add'l Site	N/A	N/A	Backfill	115 Cy	5/17/94	540.50
			34-1	Phase 25 1989-90	Adit Door	1 EA	Adit Seal	1 EA	6/1/94	425.00
			117-1	Phase 20 1987	Wood Shaft Cover	1 EA	Dropped from Project	N/A	N/A	N/A
12-034	Deer Lodge/ Blue Eyed Nellie	Mohawk								
22-117	Jefferson/Lowland	Montreal Star								

(1) PA # = Problem Area Number

(2) Add'l Site = Site added to project; no previous reclamation work done; Date indicates year original project completed.

(3) LF = Lineal Feet; CY = cubic yard; EA = Each; LS = Lump Sum - all repair items completed by Contractor for \$ 700.00.

Table 1
Hazardous Mine Opening Maintenance Project
DSL/AMRB Project No. 93-M08

PA # (1)	County/District	Site Name	Site No.	Previous Project/Date (2)	Original Work Done	Orig. Qty.(3)	Maintenance Work Done	Maint. Qty.(3)	Maint. Date	Maint. Cost
25-218	Lewis & Clark/ Scratchgravel	Scratchgravel (SE NE Sec. 35)	7-29	Phase 26 1989-90	Cable Net	1 EA	Repair	1 EA	6/3/94	LS
			7-30	Phase 26 1989-90	Cable Net	1 EA	Repair	1 EA	6/3/94	LS
			7-31	Phase 26 1989-90	Cable Net	1 EA	Repair	1 EA	6/3/94	LS
			7-32	Phase 26 1989-90	Adit Door	1 EA	Repair	1 EA	6/3/94	LS
			7-51	Phase 26 1989-90	Culvert	1 EA	Repair Hatch Cover	1 EA	6/3/94	LS
			7-56	Phase 26 1989-90	Cable Net	1 EA	Repair	1 EA	6/3/94	LS

(1) PA # = Problem Area Number

(2) Add'l Site = Site Added to project; no previous reclamation work done; Date indicates year original project completed.
(3) LF = Lineal Feet; CY = Cubic Yard; EA = Each; LS = Lump Sum - all repair items completed by Contractor for \$ 700.00.

Table 2
Hazardous Mine Opening Maintenance Project
DSL/AMRB Project No. 93-M08
Landowner List

PA #	Site Name	Legal Description	Landowner/Lessor
22-258	Bar Ed	NE NE Sec. 29 T7N R4W Jefferson County	Pegasus Gold Corp. 900 N. Montana, Suite 4A Helena, MT 59601
22-289	Bunker Hill	NE SE Sec. 21 T7N R4W Jefferson County	Jay H. Diamond P.O. Box 22 Clancy, MT 59634 Daughters of Charity of St. Vincent DePaul Seton Provincial House 26000 Altamount Rd. Los Altos, CA 94022
22-006	Cole Liverpool	SW Sec. 33 T9N R3W Jefferson County	David L. Rasmussen P.O. Box 21 Clancy, MT 59634
25-044	Contention	NE Sec. 15 T(n) R4W Lewis and Clark Co.	Charlie Hail 2009 Orofino Gulch Rd. Helena, MT 59601 Phone: (h) 443-1787 (w) 447-7970
25-190	Grizzly Gulch	NE SW Sec. 36 T10N R4W Lewis and Clark County	Gordon Tracey P.O. Box 158 Anaconda, MT 59711 Patrick McKelvey Travis Creek Helena, MT 59601
22-086	Haynes	NE SW Sec. 17 T8N R3W Jefferson County	Mr. John Haynes P.O. Box 521 Bozeman, MT 59771
22-116	Kit Carson	NW Sec. 11 T5N R7W Jefferson County	John B. Haller 1414 W. Aluminum Butte, MT 59701
22-094	Madsen (Moonlight)	SE NW Sec. 33 T9N R3W Jefferson County	Joe and Sharon Madsen Forest Park Estates Clancy, MT 59634
12-034	Mohawk	NW NW Sec. 24 T5N R12W Deer Lodge County	Mrs. Harry Payne 12240 Indian River Dr. Apple Valley, CA 92307
22-117	Montreal Star	SW Sec. 3 T4N R7W Jefferson County	Deerlodge National Forest Butte Ranger District Butte, MT 59701
25-218	Scratchgravel	SE NE Sec. 35 T10N R4W Lewis and Clark County	Roger Little 225 E. 2nd Custer, SD 57730

Project Construction

Work on this project consisted of performing maintenance on selected sites from previous AMR projects (Table 1). Subsidence features were backfilled or sealed at six sites. Consent to backfill mine openings was obtained for fifteen sites where fences had been previously installed. Portions of fences on seven of these sites were removed to accommodate equipment access to mine openings. These portions were reset and the fence left intact as a guard against future subsidence. One adit gate was removed and an adit seal installed. Seven accessing bulkheads were repaired including an adit masonry door, five cable nets, and one culvert hatch cover. The Montreal Star site was dropped from the project as a result of a claim being filed on the site. All disturbed areas were seeded, fertilized, and mulched in accordance with contract specifications.

Scott Construction completed the project utilizing a crew of two full-time workers during the construction phase of the project. Gary Martinsen was the field supervisor and Dean Tabbert was an equipment operator. The following list of equipment was used by the contractor:

- CAT 931 Track Loader
- CAT D-7 Dozer

Construction activities commenced on May 5, 1994 and continued until the project was completed on June 3, 1994. The contractor performed all construction activities according to contract specifications and within the contract period. The following chronology presents the sequence of events that led to completion of the project.

• Notice of Award:	October 29, 1993
• Notice to Proceed:	December 17, 1993
• Winter Shutdown:	January 6, 1994
• Construction Start-up:	May 5, 1994
• Certificate of Completion:	June 27, 1994
• Final Acceptance:	June 3, 1994

The following people contributed to the coordination, design, execution, and inspection of the Project:

• Project Coordination & Design:	Huntingdon Engineering and Environmental
• Engineering Plan Preparation:	Huntingdon Engineering and Environmental
• Contractor:	Scott Construction Inc.
	East Helena, MT
• Quality Control Inspection:	Huntingdon Engineering and Environmental
	Joe Murphy, Project Inspector
	Jeremiah B. Bowser, P.E., Project Eng.
• AMRB Project Manager:	Joel Chavez

Project Reconciliation

One change order was issued for this project upon completion of construction activities for a net change in contract price of (+) \$ 701.10 or 3% of the original contract total. Changes included two additional backfill closures at the Cole-Liverpool site, deletion of the Montreal Star site, and reconciliation of contract quantities. The contract time period was not affected by the change order.

The total construction cost for the Hazardous Mine Opening Maintenance Project was \$23,588.60. Attachment C contains copies of the change order, pay request, the Certificate of Completion and Acceptance, and the Affidavit on Behalf of Contractor.

Project Summary

Table 2 presents a cost analysis of project costs. Along with construction costs, this summary includes engineering costs such as closure design, bid package preparation, construction inspection, and construction administration. The total cost to complete the Hazardous Mine Opening Maintenance Project is \$ 36,987.98.

A final inspection of selected sites was conducted on June 3, 1994 by AMRB Project Coordinator Joel Chavez and Joe Murphy of Huntingdon. The closures completed during the project were constructed in general accordance with specifications contained in the Standard Construction Specifications for Abandoned Mine Reclamation and the special provisions of the bid document for the project.

TABLE 2

COST ANALYSIS
HAZARDOUS MINE OPENING MAINTENANCE PROJECT

ENGINEERING

Closure Design, Bid Package Preparation, and Bid Administration	\$ 5,767.00
Construction Inspection, Administration, and Final Report Preparation	\$ 7,632.38
TOTAL ENGINEERING FEE	\$ 13,399.38
TOTAL CONSTRUCTION COST	\$ 23,588.60
TOTAL PROJECT COST	\$ 36,987.98
TOTAL NUMBER OF OPENINGS CLOSED	29
AVERAGE CONSTRUCTION CLOSURE COST PER OPENING	\$ 813.40
AVERAGE TOTAL CLOSURE COST PER OPENING	\$ 1,275.44

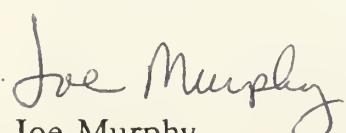
To minimize any liability to the State, all backfilled mine openings should be inspected on an annual basis for several years following completion of the project. Revegetation success should also be monitored for several years. Vegetation inspections should identify seeding failures on reclaimed sites and document species which are better suited to revegetate reclaimed sites. The presence or absence of weeds should also be documented to satisfy weed control obligations.

Project Documentation

Print photographs taken before, during, and after construction activities completed at each site are contained in Attachment D. The photographs are indexed alphabetically by site name and include the PA Number and photograph and mine opening numbers.

If you have any questions concerning this report, please contact us. We appreciate the opportunity to provide the AMRB with engineering services.

Sincerely,

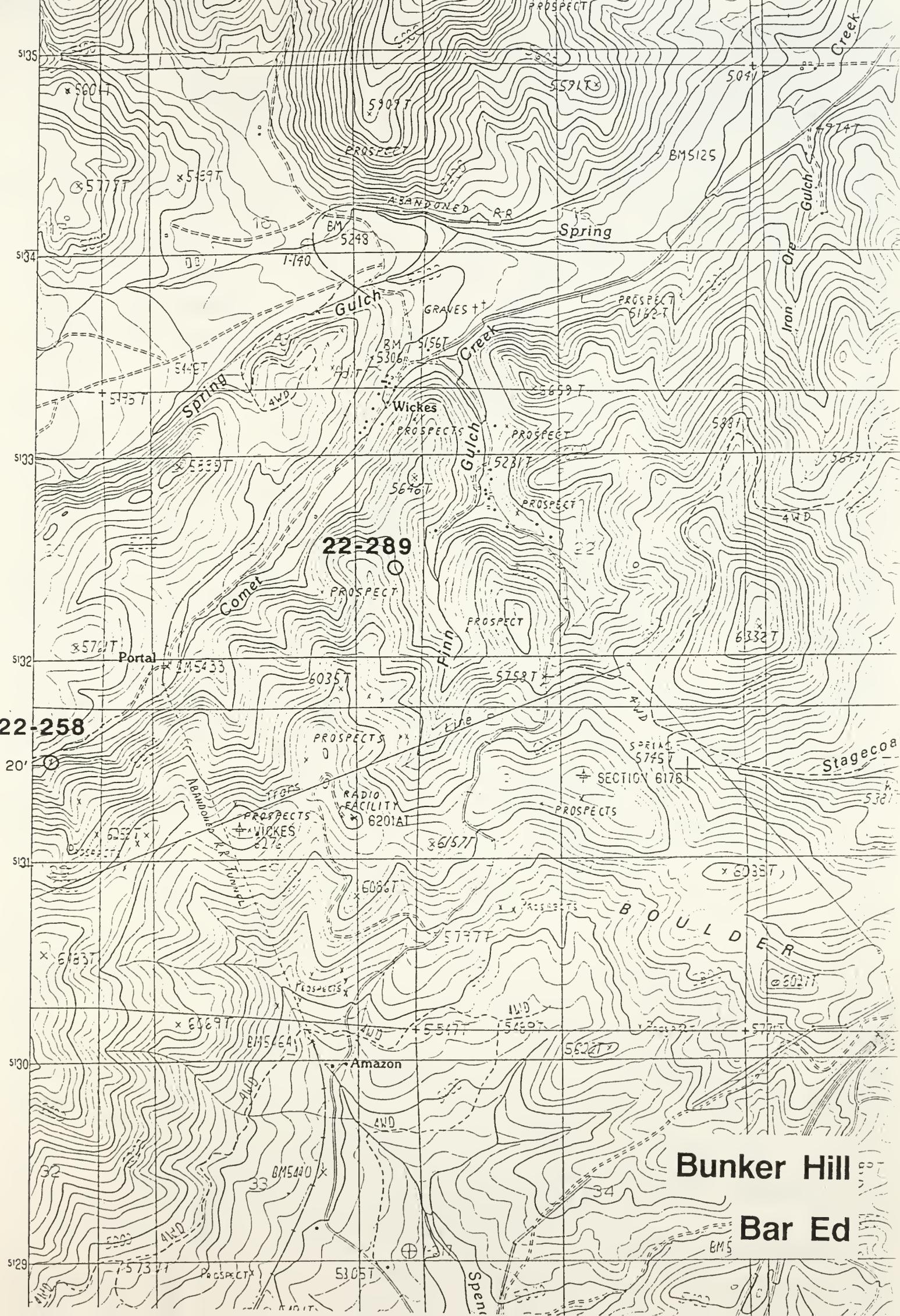

Joe Murphy
Reclamation Specialist

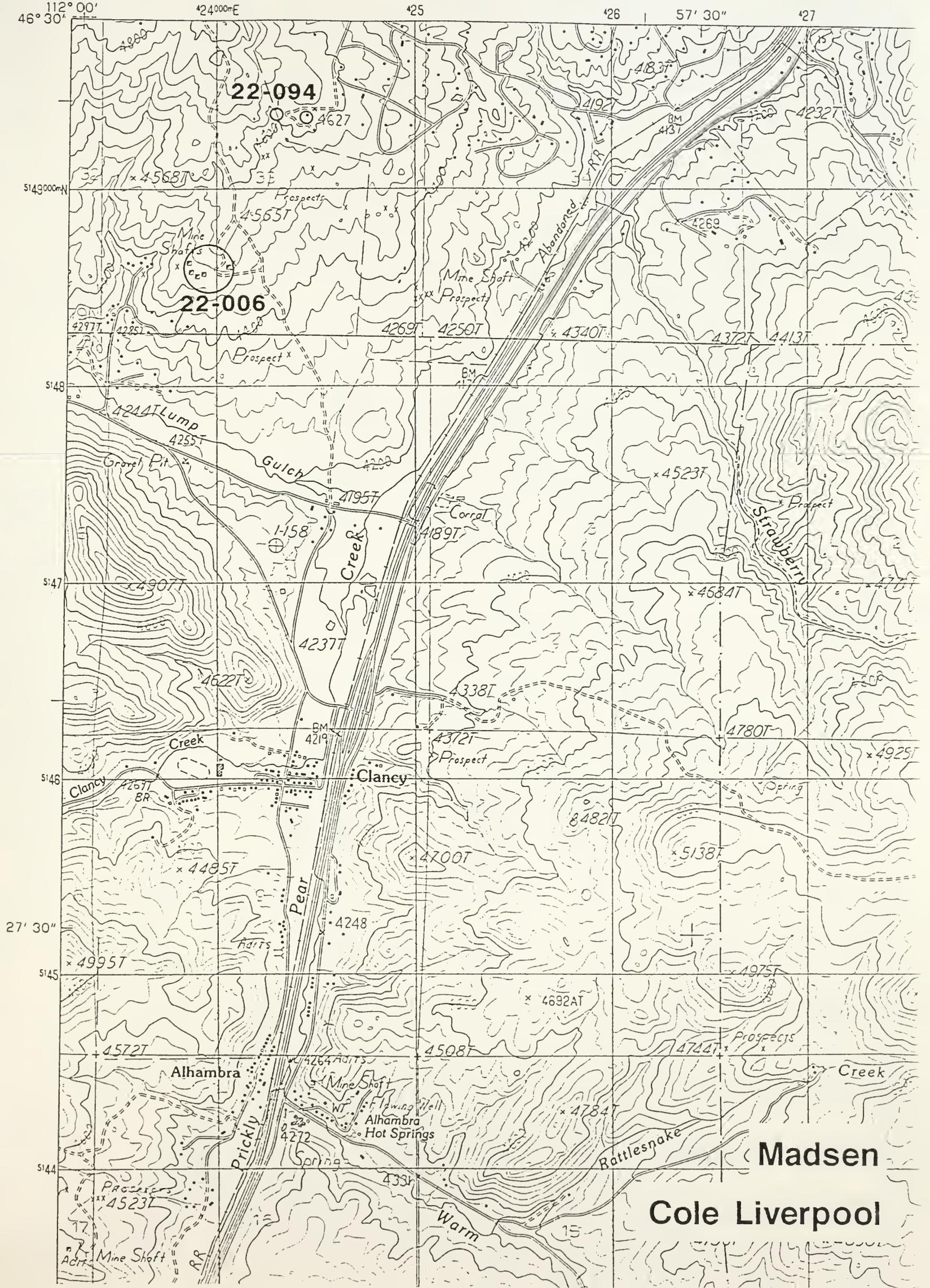
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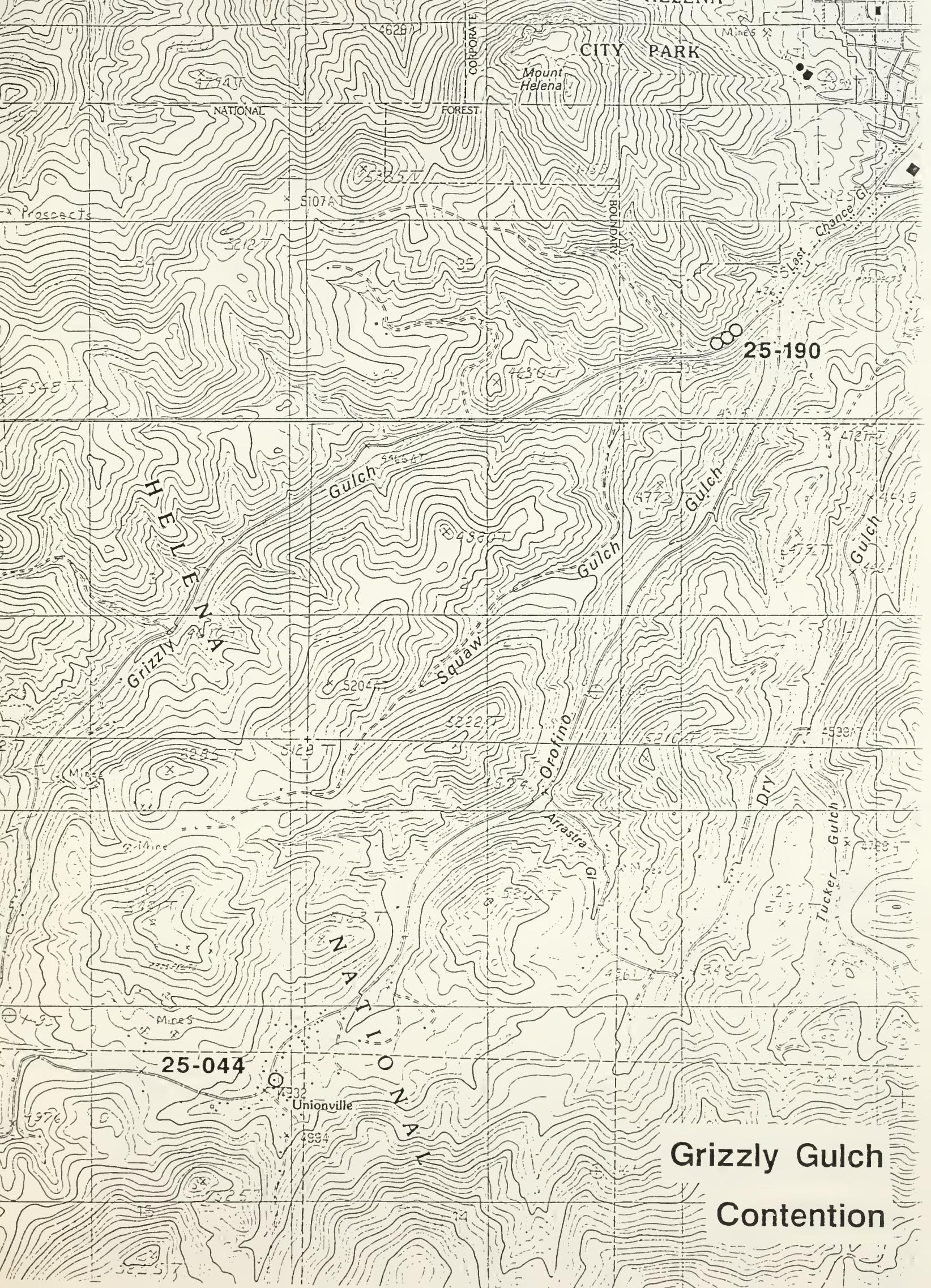

Michael Cormier
Project Coordinator

ATTACHMENT A

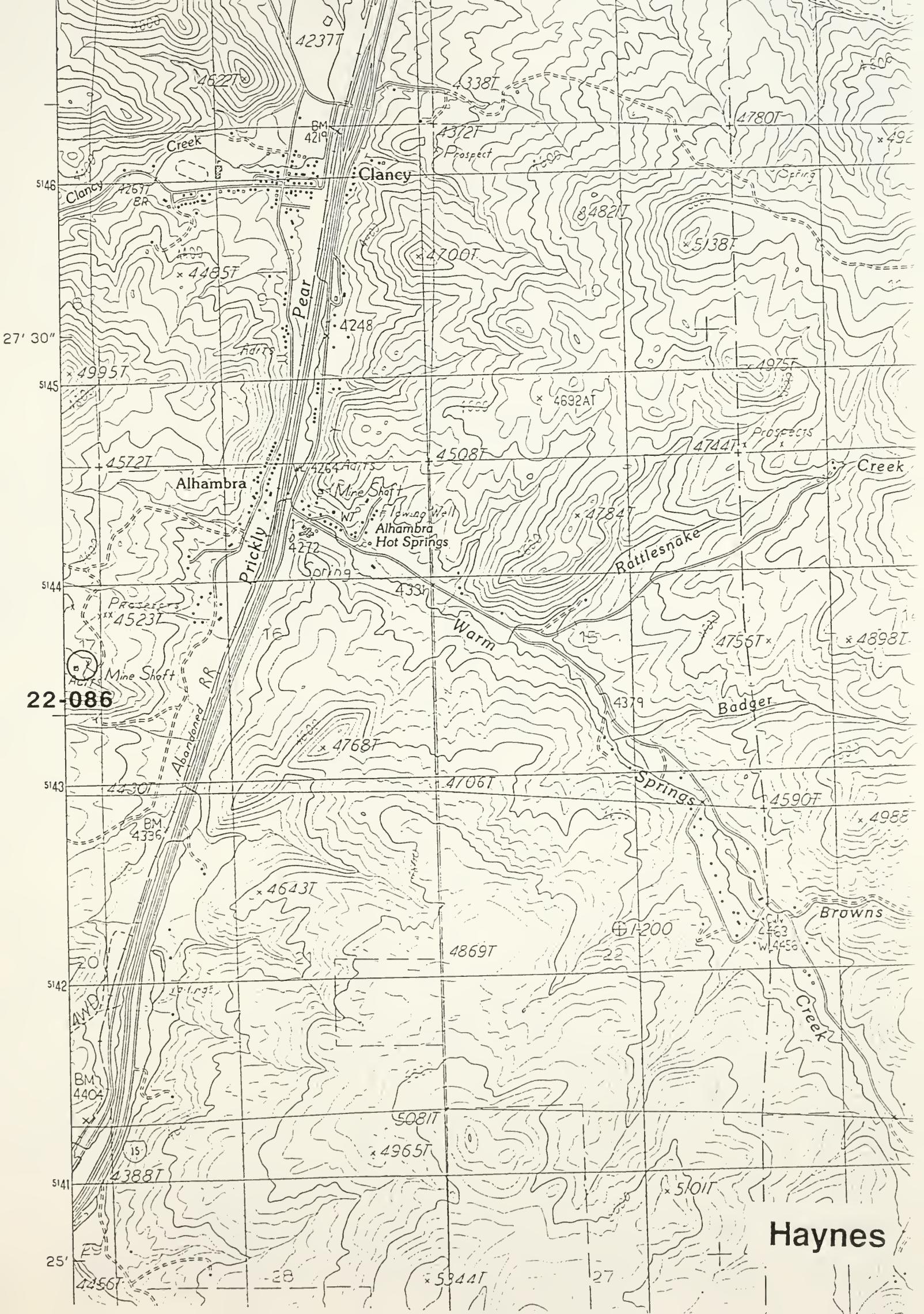
**SITE LOCATION AND ACCESS MAPS
HAZARDOUS MINE OPENING MAINTENANCE PROJECT
DSL/AMRB PROJECT NO. 93-M08**



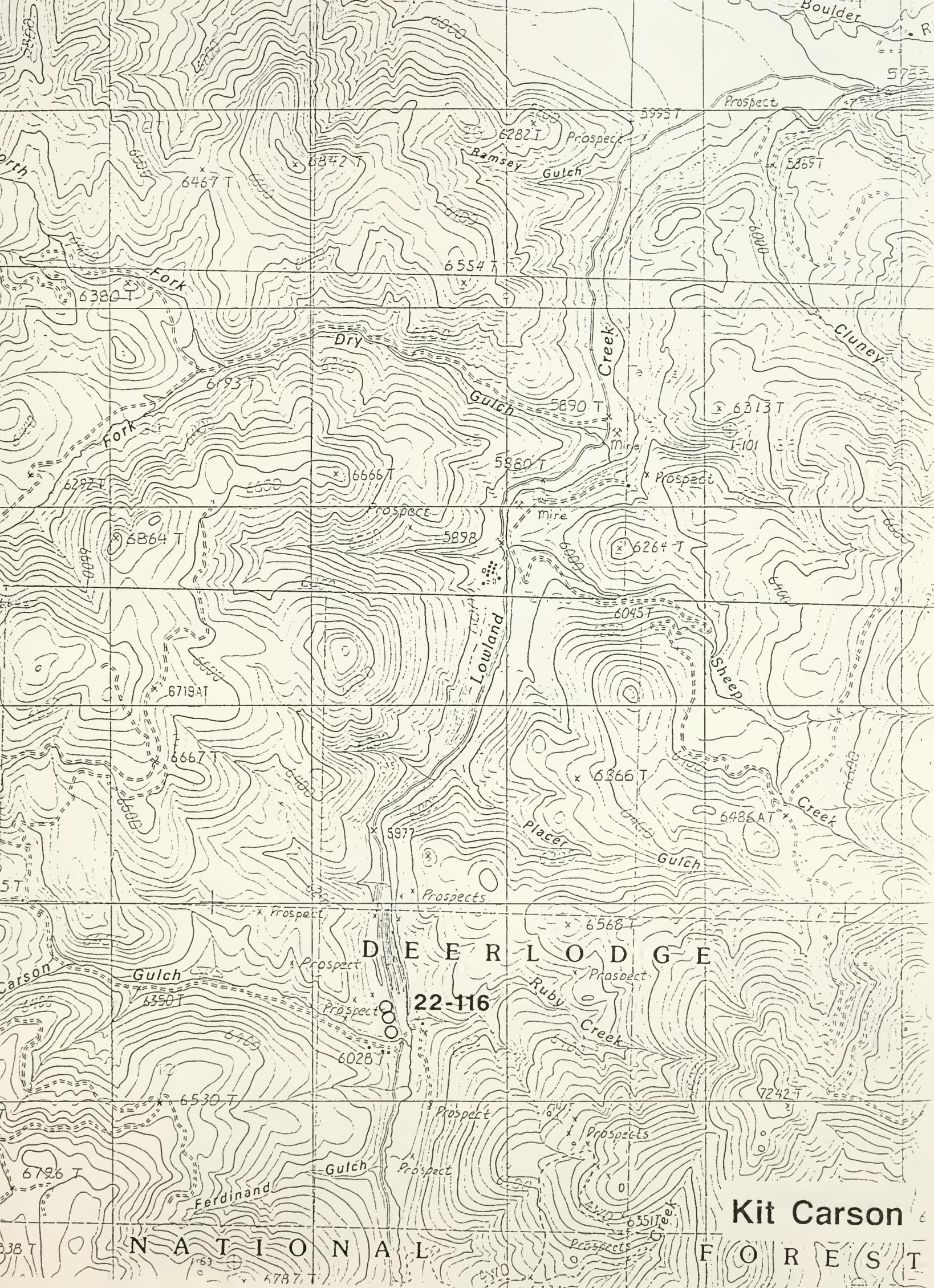


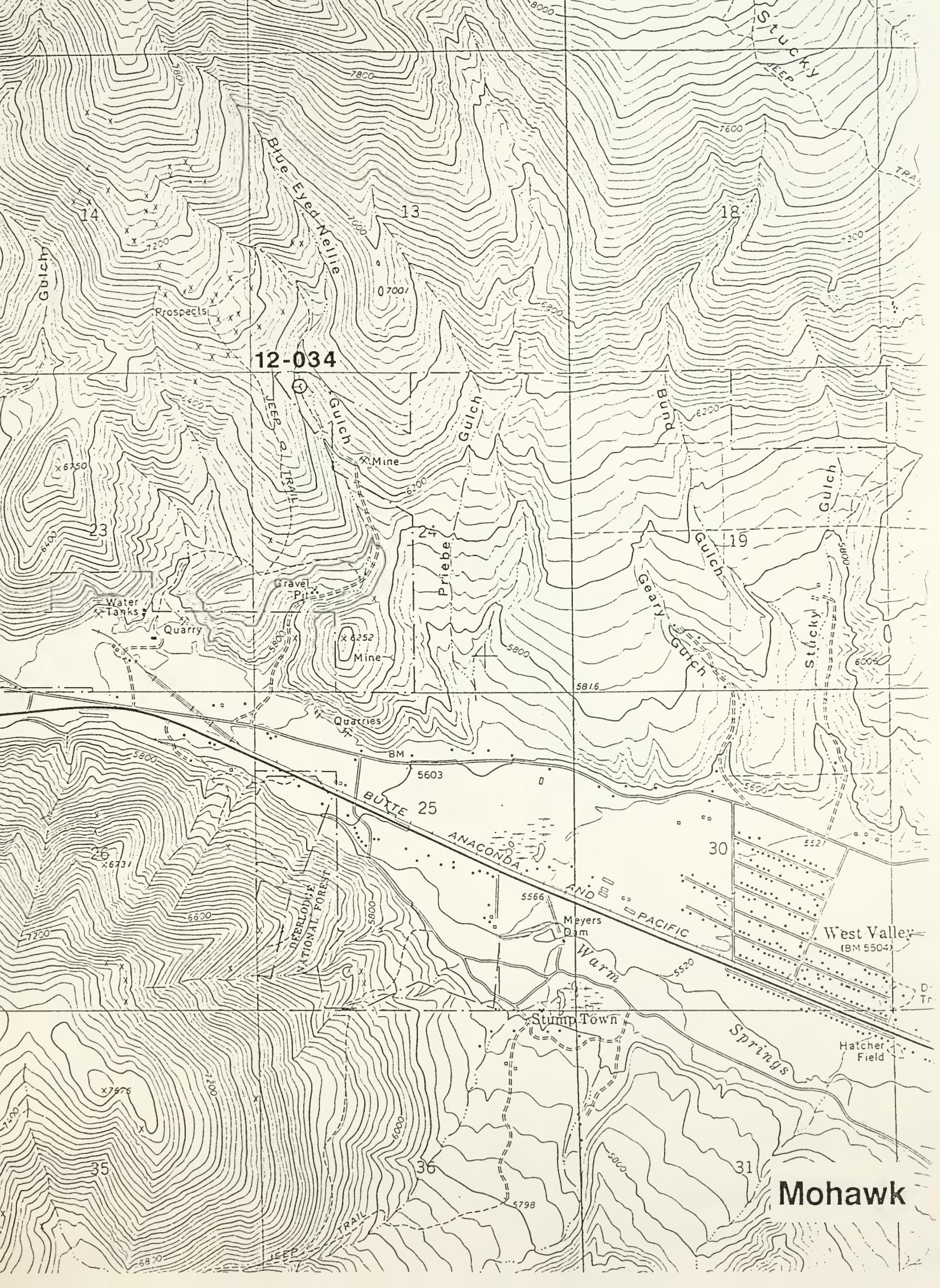


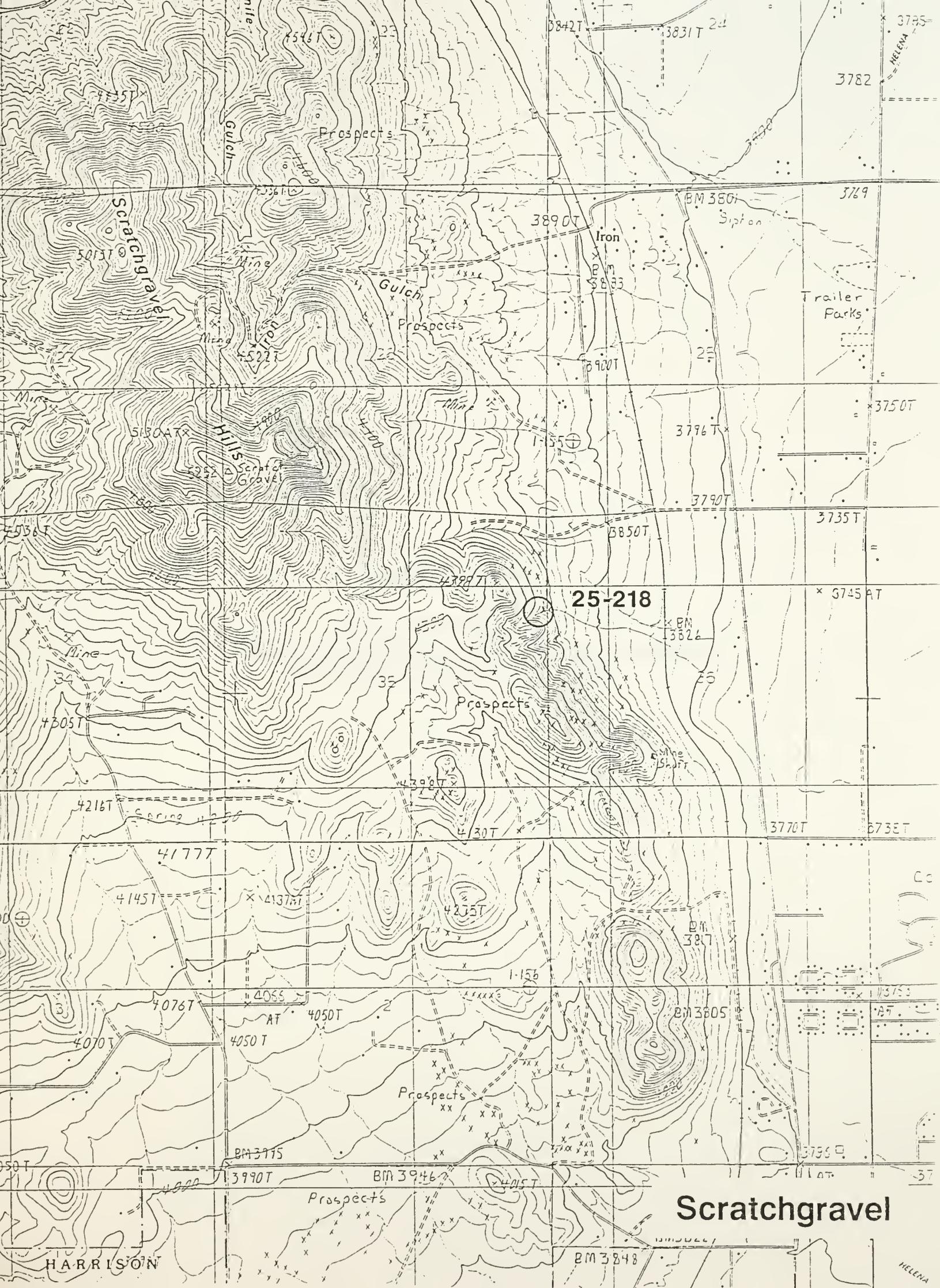
Grizzly Gulch Contention



Haynes







Scratchgravel

ATTACHMENT B

BID TABULATIONS
HAZARDOUS MINE OPENING MAINTENANCE PROJECT
DSL/AMRB PROJECT NO. 93-M08

HAZARDOUS MINE OPENING MAINTENANCE PROJECT
DEER LODGE, JEFFERSON AND LEWIS & CLARK COUNTIES, MONTANA

BID TABULATIONS			ENGINEER'S ESTIMATE		SCOTT CONSTRUCTION INC.		DEBUFF DRILLING CO.		BAXTER CONSTRUCTION	
Item Number	Estimated Quantity	Unit	Description	Unit Price	Total Price					
1.	1	LS	Mobilization, Bonding and Insurance	.00	0.00	2000.00	2,000.00	2700.00	2,700.00	3300.00
2.	3475	CY	Subsidence Grading/Backfill Closure	0.00	4.70	16,332.50	5.00	17,375.00	6.00	17,375.00
3.	60	CY	Backfill-Montreal Star	0.00	23.00	1,380.00	20.00	1,200.00	30.00	1,800.00
4.	250	LF	Remove and Reset Fence	0.00	2.50	625.00	4.00	1,000.00	6.00	1,500.00
5.	2	EA	Adit Seal	0.00	425.00	850.00	1000.00	2,000.00	1600.00	3,200.00
6.	7	LS	Repair Cable nets, masonry door and culvert hatch	0.00	700.00	700.00	2000.00	2,000.00	3500.00	3,500.00
7.	1	LS	Fertilize, Seed and Mulch	0.00	1000.00	1,000.00	1500.00	1,500.00	3000.00	3,000.00
						22,887.50		27,775.00		33,675.00

HAZARDOUS MINE OPENING MAINTENANCE PROJECT
DEER LODGE, JEFFERSON AND LEWIS & CLARK COUNTIES, MONTANA

BID TABULATIONS				ENGINEER'S ESTIMATE			HALLETT RECLAMATION	
Item Number	Estimated Quantity	Unit	Description	Unit Price	Total Price			
1.	1	LS	Mobilization, Bonding and Insurance	.00	0.00	3767.68	3,767.68	0.00
2.	3475	CY	Subsidence Grading/Backfill Closure	0.00	5.07	17,618.25	0.00	0.00
3.	60	CY	Backfill-Montreal Star	0.00	60.50	3,630.00	0.00	0.00
4.	250	LF	Remove and Reset Fence	0.00	4.35	1,087.50	0.00	0.00
5.	2	EA	Adit Seal	0.00	1405.00	2,810.00	0.00	0.00
6.	7	LS	Repair Cable nets, masonry door and culvert hatch	0.00	5000.00	5,000.00	0.00	0.00
7.	1	LS	Fertilize, Seed and Mulch	0.00	3660.00	3,660.00	0.00	0.00
				0.00	37,573.43	0.00	0.00	0.00

ATTACHMENT C

**APPROVED CHANGE ORDERS, PAYMENT REQUESTS,
CERTIFICATES OF COMPLETION AND ACCEPTANCE,
AND AFFIDAVIT ON BEHALF OF CONTRACTOR
HAZARDOUS MINE OPENING MAINTENANCE PROJECT
DSL/AMRB PROJECT NO. 93-M08**

PAYMENT REQUEST NO. 1

RECEIVED

FROM May 5, 1994 TO June 3, 1994

JUN 30 1994

PROJECT TITLE: Hazardous Mine Opening Maintenance Project1000 S. MONTANA
DEER LODGE, MT 59601LOCATION: Deer Lodge, Jefferson, & Lewis and Clark Co. MONT A/E or DSL-AMRB: 93-M08NAME OF CONTRACTOR: Scott Construction, Inc.ADDRESS: P.O. Box 777, East Helena, MT 59635

SUMMARY OF PROJECT STATUS

Amount of Original Contract	\$ <u>22,887.50</u>
Change Order No. <u>1</u>	\$ <u>701.10</u>
Change Order No. _____	\$ _____
Change Order No. _____	\$ _____
Amount of Approved Change Order(s)	\$ <u>701.10</u>
TOTAL CONTRACT AMOUNT	\$ <u>23,588.60</u>

Pay Request No.	Amount of Request
1	\$ 23,588.60

Total Contract Amount Completed to Date	\$ <u>23,588.60</u>
Less Retainage (<u>0</u> %)	\$ <u>0</u>
TOTAL AMOUNT EARNED TO DATE	\$ <u>23,588.60</u>
Less Previous Payments	\$ <u>0</u>
AMOUNT DUE THIS PAYMENT	\$ <u>23,588.60</u>
Less 1% Tax	\$ <u>235.89</u>
TOTAL DUE CONTRACTOR	\$ <u>23,352.71</u>

I certify that this claim is correct and just in all respects and that payment or credit has not been received.

APPROVED BY:

By Scott Construction Inc.
Contractor
Date 6-15-94

Dept. of State Lands, Abandoned Mine Reclamation Bureau
Owner

RECOMMENDED BY:

By Huntingdon Engineering
Engineer
Date 6/28/94

RESP. CNTR.	<u>30127 940120-02</u>
OBI. EXP.	<u>2/21</u>
APPROVAL	<u>Dr. R. Carter</u>
DATE	<u>6/29/94</u>

Item No.	Description	Contract Quantity	Contract Unit Price	Previous Quantity Requested	Current Quantity Completed	Total Quantity Completed To Date	Total Contract Amount Completed to Date	Amount Due this Payment
1	Mobilization, bonding and insurance	1	LS	0	1.0	1.0	2,000.00	2,000.00
2	Subsidence grading/backfill closure	3,475 cy	4.70	0	3,526 cy	3,526 cy	16,572.20	16,572.20
3	Backfill Montreal Star	60 cy	23.00	0	0	0	0	0
4	Remove and reset fence	250 LF	2.50	0	212 LF	212 LF	530.00	530.00
5	Adit seal	2 ea	425.00	0	2.0	2.0	850.00	850.00
6	Repair cable nets, masonry door, and culvert hatch	1	LS	0	1.0	1.0	700.00	700.00
7	Seed, fertilize, and mulch	1	LS	0	1.0	1.0	1,000.00	1,000.00
Subtotal							21,562.00	21,652.00
Change Order Work Completed								
	Cole-Liverpool Sites #6-8 (12 cy) and #6-9 (400 cy)		4.70	0	412 cy	412 cy	1,936.40	1,936.40
	Materials on Site (Attach Schedule)	--	--	\$	\$	→ \$	\$	\$
TOTAL							\$ 23,588.60	\$ 23,588.60

CHANGE ORDER

ORDER NO. 1

PROJECT TITLE: Hazardous Mine Opening Maintenance Project

MONT A/E or DSL-AMRB: 93-M08

CONTRACT DATE: 12-17-93

OWNER: Montana Department of State Lands, Abandoned Mine Reclamation Bureau

CONTRACTOR: Scott Construction, Inc., P.O. Box 777, East Helena, MT 59635

Change Orders must be accompanied by an itemized cost breakdown. You are hereby requested to comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES - ESTIMATED QUANTITIES & UNITS	COST OF CHANGES					TOTAL COST
		MAT'L'S.	LABOR	EQUIP.	MISC.	TOTAL UNIT COST	
1	Add: Backfill closure of two additional sites at Cole Liverpool #6-8(12 cy) and #6-9 (400 cy)					4.70 cy	1,936.40
2	Delete: Backfill closure Montreal Star (60 cy)					23.00 cy	<1,380.00>
3	Reconciliation of estimated quantities and actual quantities used on the project.						
3a	Backfill closure (+ 51 cy)					4.70 cy	239.70
3b	Remove and reset fence (<38 L.F.>)					2.50 L.F	<95.00>
TOTAL COST - MATERIALS, LABOR, EQUIPMENT & MISC.						\$ 701.10	
OVERHEAD & PROFIT @ <u> </u> %						included	
GRAND TOTAL - THIS CHANGE ORDER						\$ 701.10	

Original Contract Price	<u>\$ 22,887.50</u>
Current Contract Price Adjusted by Previous Change Order	<u>22,887.50</u>
Cost this Change Order (+ or -)	<u>701.10</u>
New Contract Price Including this Change Order	<u>\$ 23,588.60</u>

The completion date as set forth in the Contract Documents shall be (unchanged, increased, decreased) by 0 calendar days.

The date for completion of all work will be N/A.

Description and Justification for Change:

1. Additional sites identified by AMRB.
2. Claim filed on this site. Site dropped from project at direction of AMRB.
3. Reconciliation of estimated quantities and actual quantities used on the project.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order. The Principal and the Surety further agree that on or after execution of this consent, the penalty of the applicable Performance Bonds or Bonds is hereby increased by \$701.10 (100% of the Change Order amount) and the penalty of the applicable Labor and Material Bond or Bonds is hereby increased by \$ 701.10 (100% of the Change Order amount).

COUNTERSIGNED BY MONTANA
RESIDENT AGENT

SURETY

Brandon D McManus RE TIG PREMIER INSURANCE COMPANY
FLYNN INSURANCE AGENCY
P O BOX 711, GREAT FALLS, MT 59403
By: Cindy S Reiquam
Seal CINDY S. REIQUAM

Recommended by: Jeremiah B. Bowser 6/28/94
Engineer Date

Accepted by: Patric Scott, Pres, Scott Construction Inc. 6-15-94
Contractor Date

Approved by: Vir R. Anderson
Owner Date

CERTIFICATE OF SUBSTANTIAL COMPLETION

TO: MONTANA DEPT. OF STATE LANDS - Abandoned Mine Reclamation Bureau OWNER

PROJECT TITLE: Hazardous Mine Opening Maintenance Project

MONT A/E or DSL-AMRB: 93-M08

SUBSTANTIAL COMPLETION DATE: June 3, 1994

CONTRACT DATE: December 17, 1993

DSL INSPECTION DATE: 6/3/94

LOCATION: Various Counties, Montana

ENGINEER: Huntingdon Chen Northern

PROJECT OR PART SHALL INCLUDE: Backfill, fence, adit seal, seed & fertilize.

PERFORMANCE BOND NO: TPI-3788531

CONTRACTOR: Scott Construction, Inc.

DATE OF BOND: December 17, 1993

ADDRESS: P.O. Box 777

SURETY: Transamerica Premier Ins. Company

East Helena, MT 59635

MONTANA AGENT: Flynn Insurance Agency

TELEPHONE NO: 227-5740

ADDRESS: Box 711

Great Falls, MT 59403

The Work performed under this Contract has been Inspected by authorized representatives of the Owner, Contractor, and Engineer, and the Project (or specified part of the Project, as Indicated above) is hereby declared to be substantially completed on the above date.

DEFINITION OF SUBSTANTIAL COMPLETION

The date of substantial completion of a project or specified area of a project is the date when the construction is sufficiently completed, in accordance with the contract documents, as modified by any change orders agreed to by the parties, so the Owner can occupy or utilize the project or specified area of the project for the use for which it was intended.

A tentative list of items to be completed is appended hereto. This list may not be exhaustive, and the failure to include an item on it does not alter the responsibility of the Contractor to complete all the Work in accordance with the Contract Documents.

ENGINEER: Huntingdon Chen Northern

By Jeremiah B. Bowser 6/28/94

Authorized Representative Date

The Contractor accepts the above Certificate of Substantial Completion and agrees to complete and correct the items on the tentative list within the time indicated.

CONTRACTOR: Scott Construction, Inc.

By Pat Scott 6-27-94

Authorized Representative Date

The Owner accepts the Project or specified area of the Project as substantially complete and will assume full possession of the project or specified area at _____ (time), on _____ (date). The responsibility for heat, utilities, security, and Insurance under the Contract Documents shall be as set forth under "Remarks" below.

OWNER: Montana Dept. of State Lands

By Verde Anderson

Authorized Representative Date

Remarks: (Attach additional sheet, if necessary)

AFFIDAVIT ON BEHALF OF CONTRACTOR

STATE OF MONTANA)

MONT A/E or DSL-AMRB: 93-M08

COUNTY OF Lewis & Clark)

: ss

DATE: June 27, 1994

I certify to the best of my knowledge and belief that all work has been performed and materials supplied in strict conformance with the terms and conditions of the corresponding contract documents between Montana Dept. of State Lands, the Owner, and Scott Construction, Inc., the Contractor, dated December 17, 1991 for the Hazardous Mine Opening Maintenance Project, Mont A/E or DSL-AMRB 93-M08, and

further declare that all bills for materials, supplies, utilities, and for all other things furnished or caused to be furnished by the above-named Contractor and used in the execution of the above Contract have been fully paid, and there are no unpaid claims or demands of State Agencies, subcontractors, materialmen, mechanics, laborers or any others resulting from or arising out of work done or ordered to be done by said Contractor under the above-identified Contract.

In consideration of the prior and final payments made and all payments made for authorized changes, the Contractor releases and forever discharges the Owner from any and all obligations and liabilities arising by virtue of said Contract and authorized changes between the parties hereto, either verbal or in writing, and any and all claims and demands of every kind and character whatsoever against the Owner, arising out of or in any way relating to said Contract, and authorized changes.

This statement is made for the purpose of inducing the Owner to make Final Payment under the terms of the Contract, relying on the truth and statements contained therein.

Dated this 27 day of June, 1994, at Helena, Montana.

CONTRACTOR: Scott Construction, Inc.

By: Patti Scott
Title: President

Subscribed and sworn to before me this 27 day of June, 1994.

(SEAL)

Debbie Lloyd
Notary Public for the State of Montana
Residing at Helena
My commission expires 2-9-96

CONTRACTOR'S CERTIFICATE OF COMPLETION

TO (Owner): Abandon Mine Recl. Bureau Montana Dept. of State Lands P.O. Box 201601 Helena, MT 59620-1601 ATTN: Engineer Joel Chavez, Cont. Officer Jeremiah B. Bowser, P.E. DATE: June 27, 1994 PROJECT TITLE: Hazardous Mine Opening Maintenance Project MONT A/E or DSL-AMRB: 93-M08 CONTRACT DATE: December 17, 1993

FROM: SCOTT CONSTRUCTION, INC.
(Firm or Corporation)

This is to certify that I, PATTI SCOTT, am an authorized official of SCOTT CONSTRUCTION, INC., working in the capacity of PRESIDENT and have been properly authorized by said firm or corporation to sign the following statements pertaining to the subject contract:

I know of my own personal knowledge, and do hereby certify, that the work of the contract described above has been performed, and materials used and installed in every particular, in accordance with, and in conformity to, the Contract Plans and Specifications.

The contract work is now complete in all parts and requirements and ready for your substantial completion inspection.

I understand that neither the determination of the Engineer that the work is complete nor the acceptance thereof by the Owner shall operate as a bar to claim against the Contractor under the terms of the guarantee provisions of the Contract Documents.

CONTRACTOR: SCOTT CONSTRUCTION, INC.
By: Patti Scott, Pres.
PATTI SCOTT Title PRESIDENT

Distribution: 1. Project Manager
2. Field Office
3. File



TIG INSURANCE

COMPANY NAME CHANGE RIDER

Please attach this rider to your bond.

The name of the company issuing your bond has been changed. This name change does not in any way modify either your bond status or your bond provisions.

The bond is revised as follows:

The name "Transamerica Insurance Company" is deleted wherever it appears and is replaced by "TIG Insurance Company."

The name "Transamerica Premier Insurance Company" is deleted wherever it appears and is replaced by "TIG Premier Insurance Company."

The name "Transamerica Specialty Insurance Company" is deleted wherever it appears and is replaced by "TIG Specialty Insurance Company."

All other provisions of this bond continue to apply.

This change is signed by the President and Secretary of the companies.

A handwritten signature in black ink, appearing to read "Ali M.R." followed by a stylized surname.

Secretary

A handwritten signature in black ink, appearing to read "Donald L. Johnson".

President

ATTACHMENT D

PHOTOGRAPHIC RECORD
HAZARDOUS MINE OPENING MAINTENANCE PROJECT
DSL/AMRB PROJECT NO. 93-M08

PHOTOGRAPHIC RECORD
HAZARDOUS MINE OPENING MAINTENANCE PROJECT 93-M08

Site Name	PA #	Photo No.	Mine Opening No.	Site Name	PA #	Photo No.	Mine Opening No.
Bar Ed	22-258	1	258-1	Cole-Liverpool	22-006	31	6-8
		2	258-1			32	6-7
		3	258-1			39	6-7
		7	258-1			38	6-7
		5	258-1			35	6-8
		6	258-1			39	6-8
Bunker Hill	22-289	-	-			37	6-8
Cole-Liverpool	22-006	7	6-4	Contention	25-044	38	6-9
		3	6-4			39	44-1
		9	6-4			40	44-1
		10	6-2	Grizzly Gulch	25-190	47	190-1
		11	6-2			42	190-1
		12	6-3			49	86-1
		13	6-3			47	86-1
		14	6-3			49	86-1
		19	6-3			46	86-4
		16	6-3			47	86-2
		17	6-3			49	86-2
		18	6-3			49	86-2
		19	6-3			54	86-3
		24	6-3			51	86-3
		24	6-3			52	86-4
		22	6-4			53	86-4
		23	6-4			54	86-4
		24	6-4			55	86-4
		25	6-4	Kit Carson	22-116	55	116-1
		28	6-4			57	116-1
		27	6-5			54	116-2
		28	6-6			59	116-2
		29	6-6			60	116-3
		30	6-6			61	116-3

PHOTOGRAPHIC RECORD
HAZARDOUS MINE OPENING MAINTENANCE PROJECT 93-M08

Site Name	PA #	Photo No.	Mine Opening No.	Site Name	PA #	Photo No.	Mine Opening No.
Madsen (Moonlight)	22-094	62	34-1				
		63	94-1				
		64	94-2				
		65	94-2				
		66	94-2				
Mohawk	12-034	68	34-1				
		68	34-1				
		69	94-1				
Scratchgravel	25-218	70	7-29				
		70	7-30				
		72	7-30				
		73	7-32				
		74	7-56				

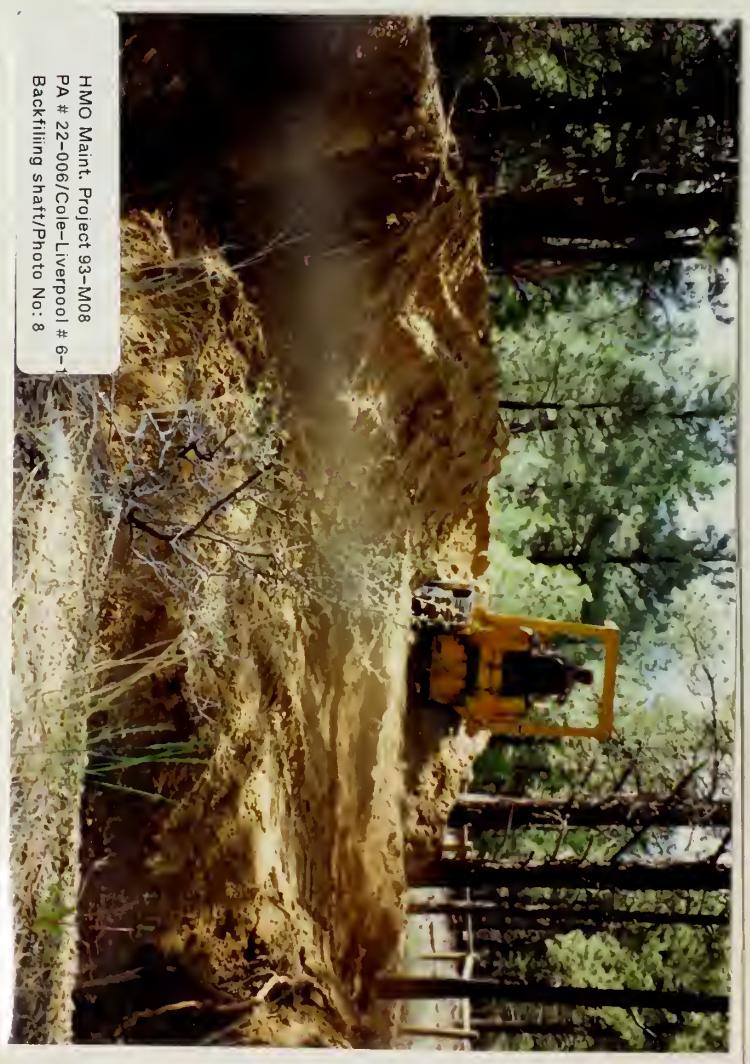
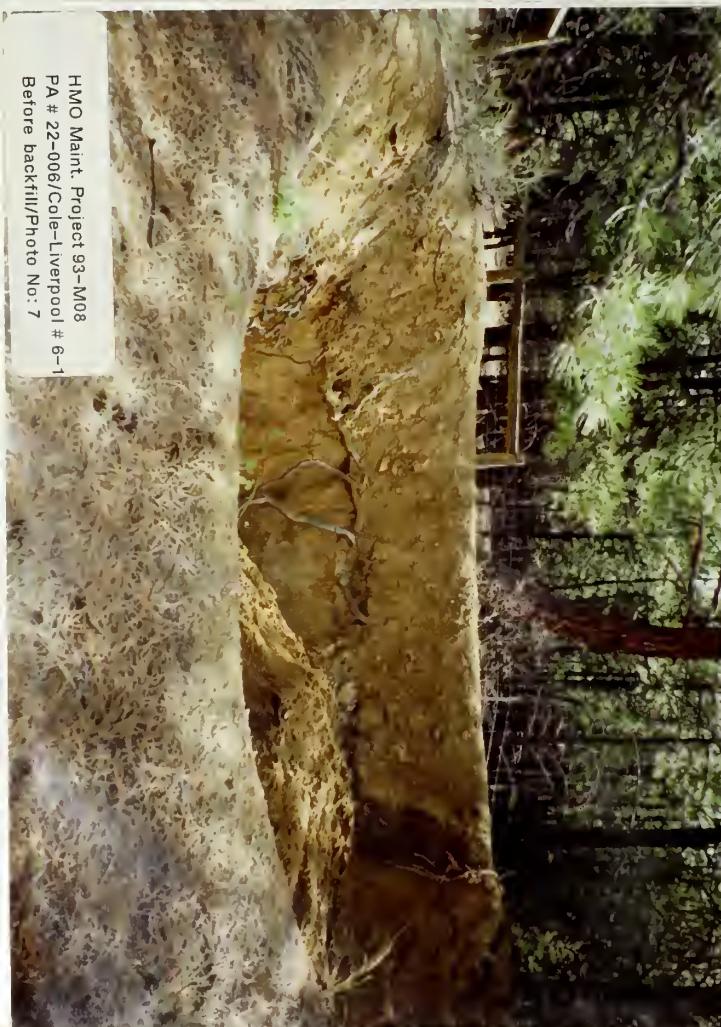


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PA # 22-258/Bar Ed # 258-1
Backfill source area/Photo No: 2

HMO Maint. Project 93-M08
PA # 22-258/Bar Ed # 258-1
Backfilling subsidence/Photo No: 1

HMO Maint. Project 93-M08
PA # 22-258/Bar Ed # 258-1
Graded material source area/Phot
No: 3

HMO Maint. Project 93-M08
PA # 22-258/Bar Ed # 258-1
Seeding disturbed area/Photo No:



HMO Maint. Project 93-M08
PA # 22-258/Bar Ed # 258-1
Completed backfill/Photo No: 6

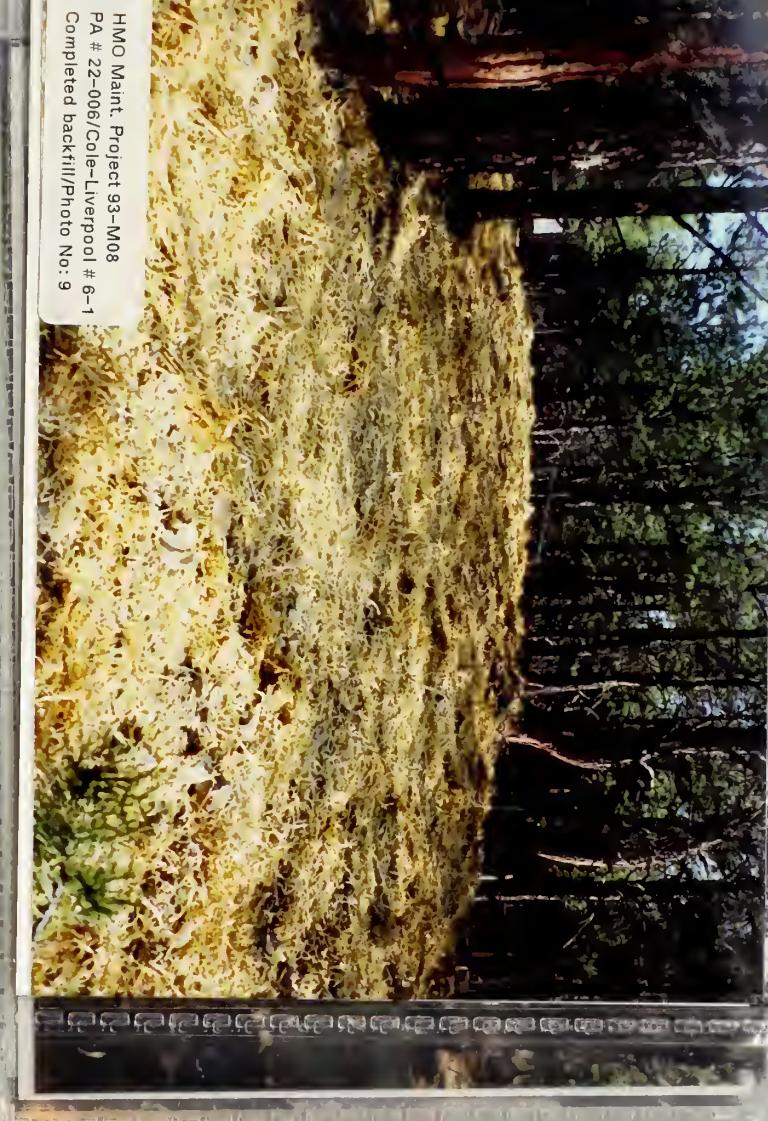
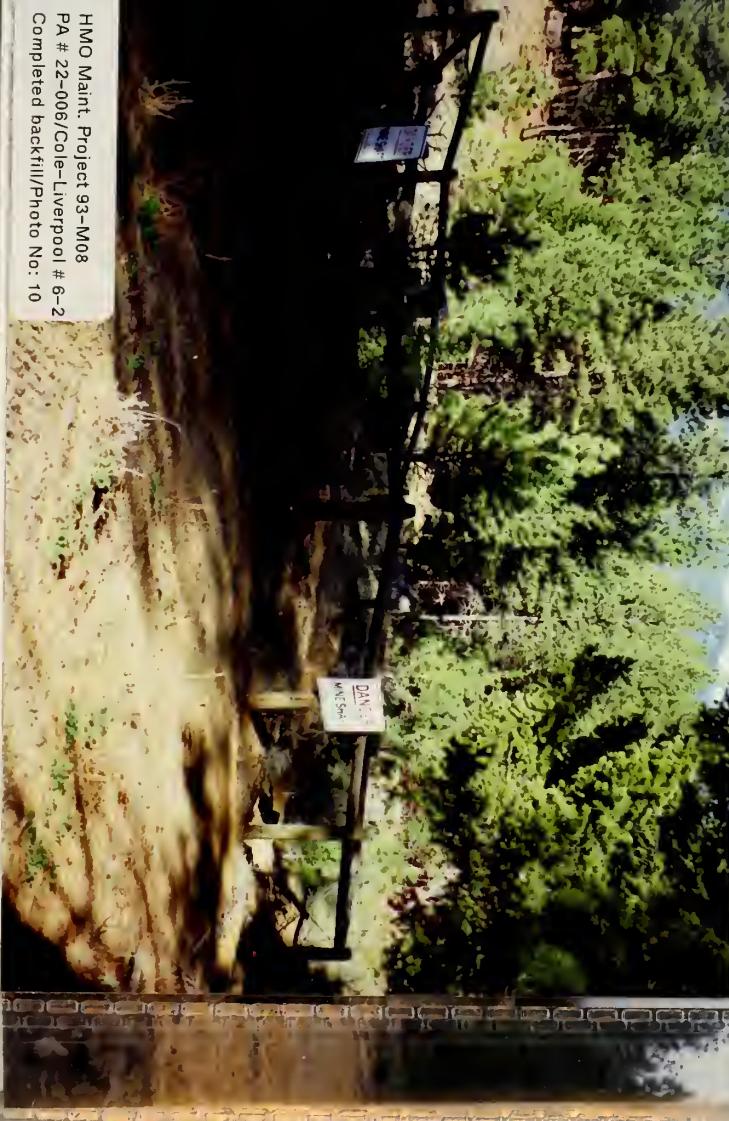
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PA # 22-258/Bar Ed # 258-1
Completed backfill/Photo No: 5

HMO Maint. Project 93-M08
PA # 22-006/Cole-Liverpool # 6-1
Backfilling shaft/Photo No: 8

HMO Maint. Project 93-M08
PA # 22-006/Cole-Liverpool # 6-1
Before backfill/Photo No: 7

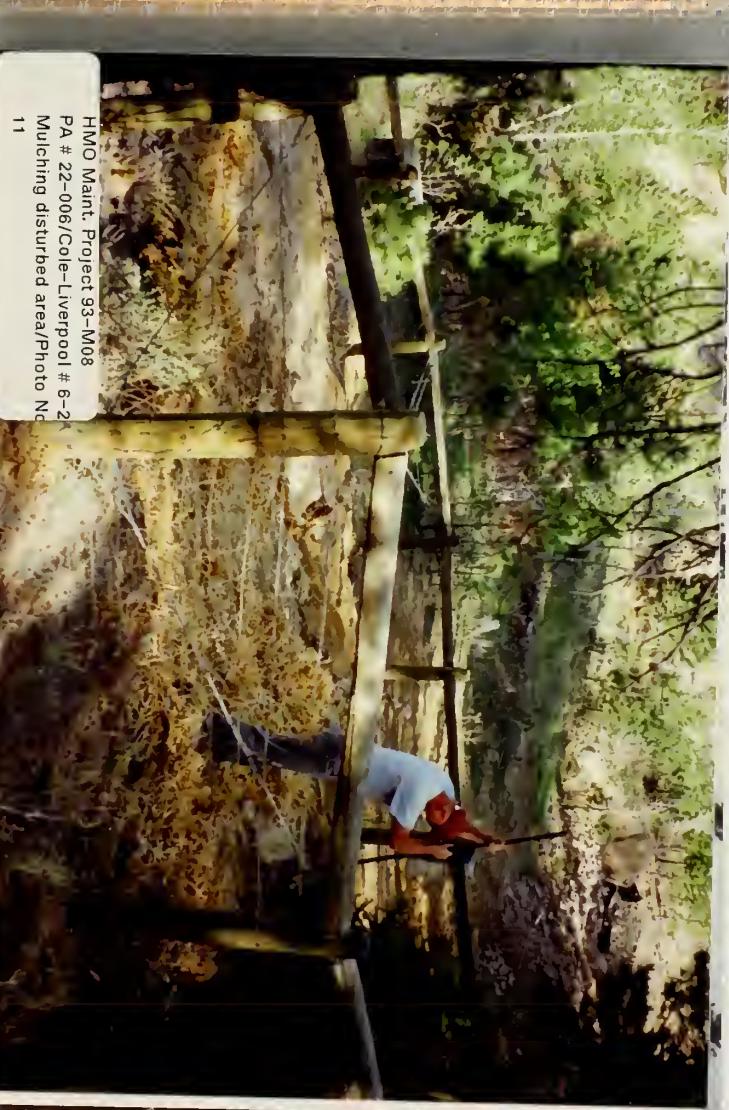
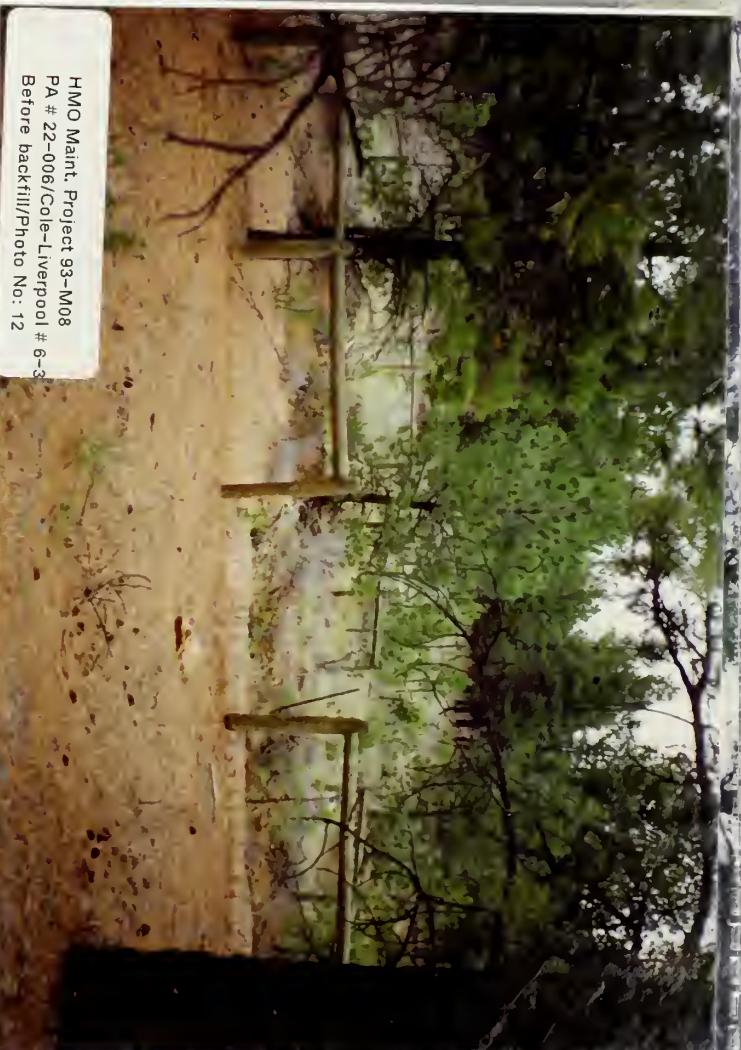
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PA # 22-006/Cole-Liverpool # 6-2
Completed backfill/Photo No: 10

HMO Maint. Project 93-M08
PA # 22-006/Cole-Liverpool # 6-2
Mulching disturbed area/Photo No: 11



HMO Maint. Project 93-M08
PA # 22-006/Cole-Liverpool # 6-1
Completed backfill/Photo No: 9

HMO Maint. Project 93-M08
PA # 22-006/Cole-Liverpool # 6-3
Before backfill/Photo No: 12



HMO Maint. Project 93-M08
PA # 22-006/Cole-Liverpool # 6-3
Backfilling shaft/Photo No: 14

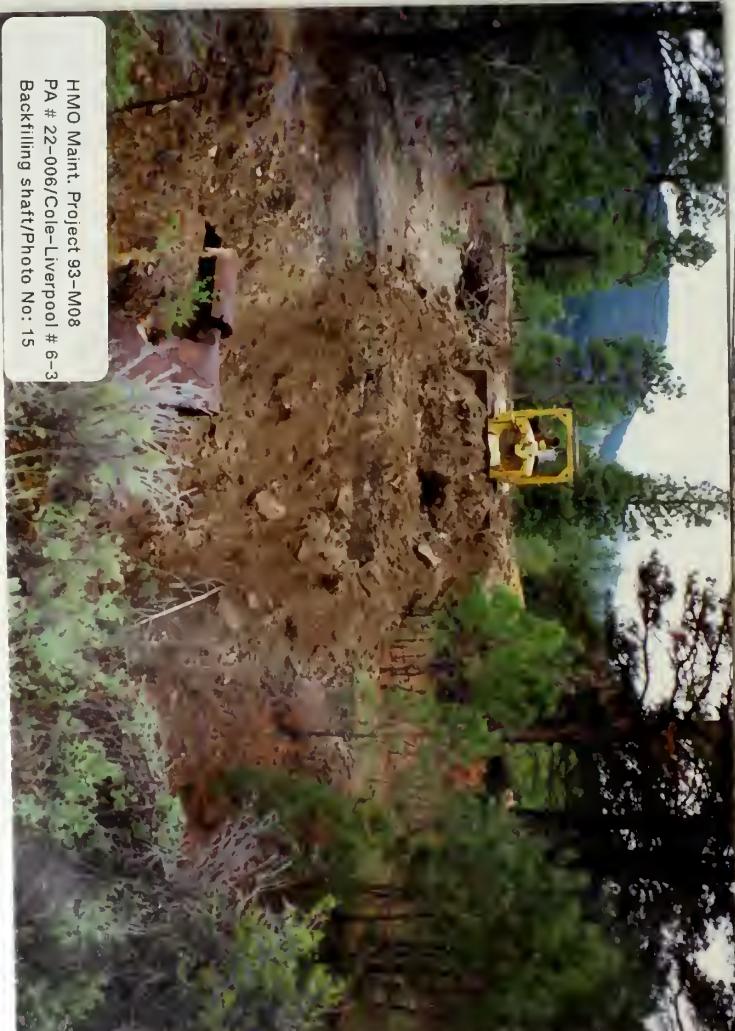
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PA # 22-006/Cole-Liverpool # 6-3
Backfilling shaft/Photo No: 15

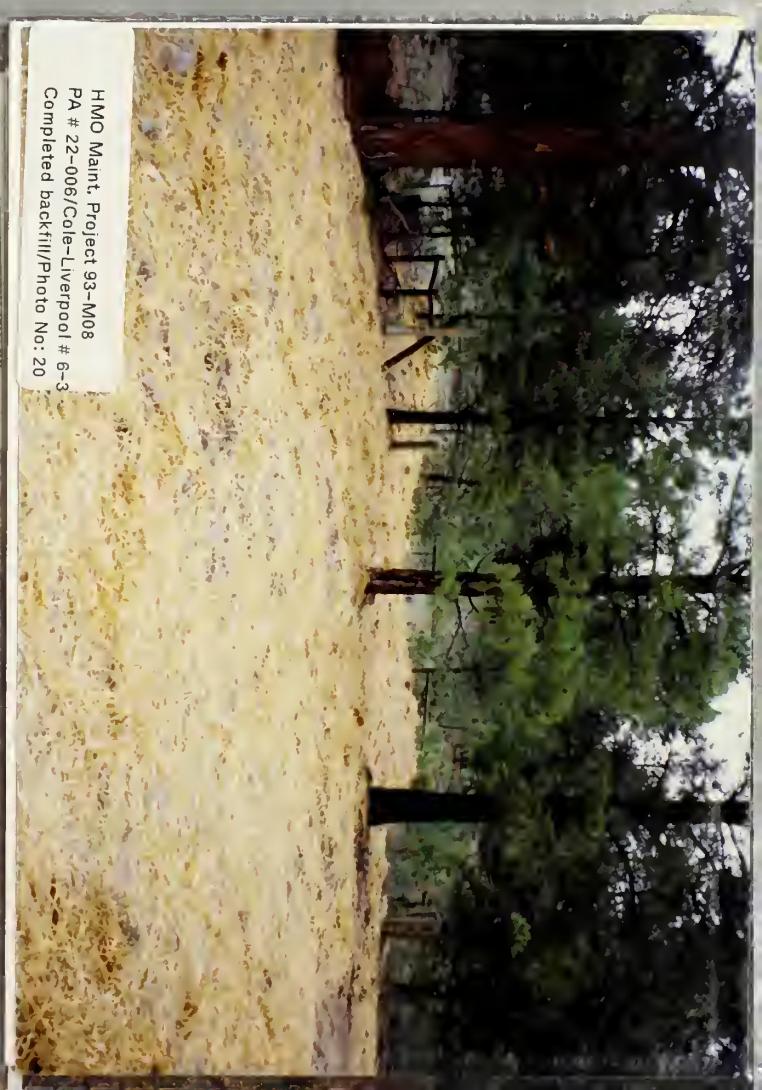
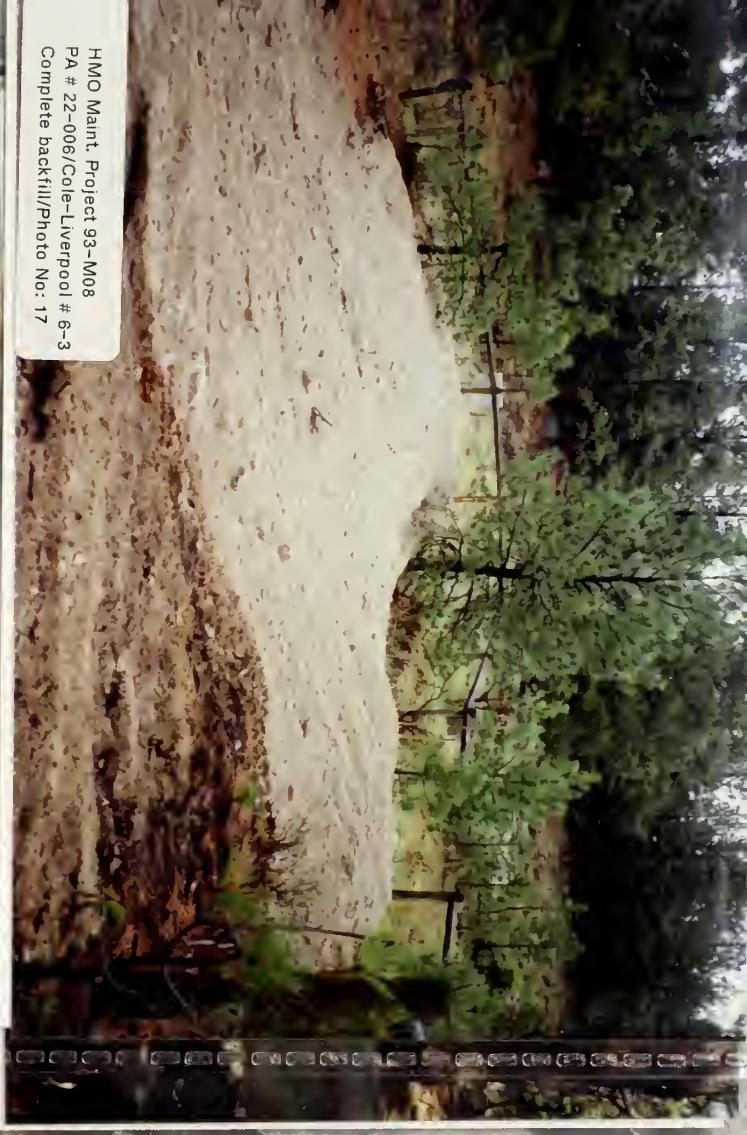
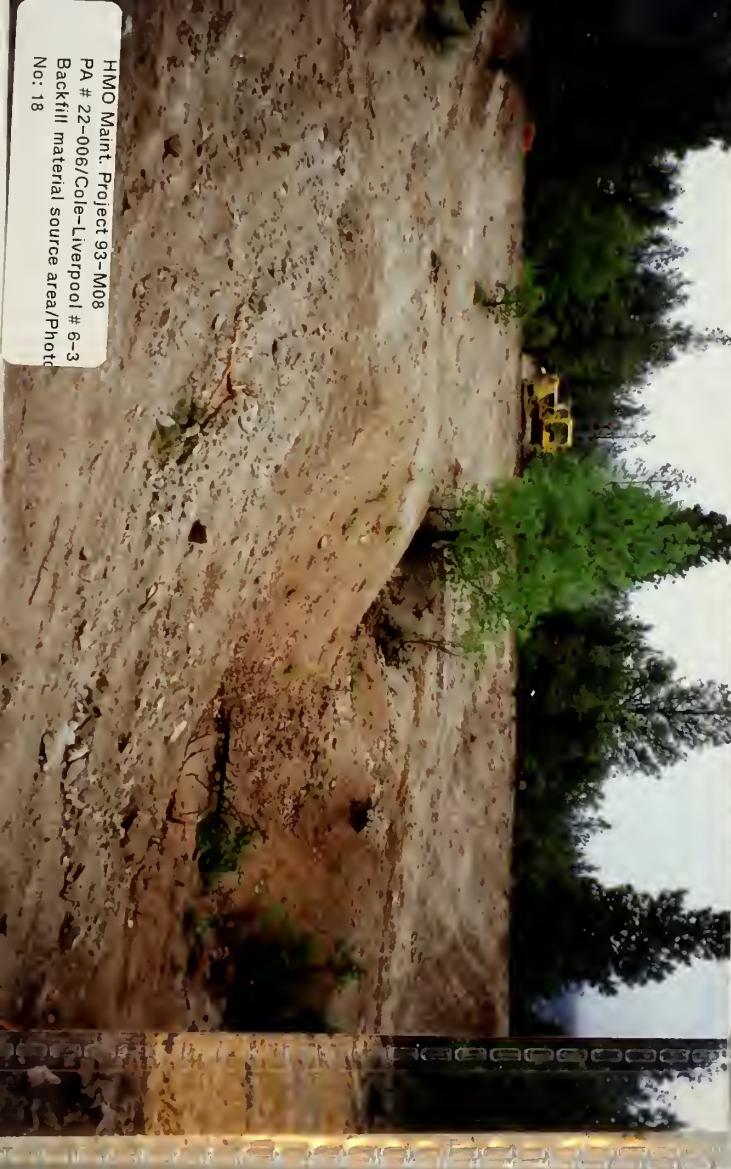


HMO Maint. Project 93-M08
PA # 22-006/Cole-Liverpool # 6-3
Before backfill/Photo No: 13

HMO Maint. Project 93-M08
PA # 22-006/Cole-Liverpool # 6-3
Backfilled shaft (D-7 dozer)/Photo
No: 16

Backfilling shaft/Photo No: 8





HMO Maint. Project 93-M08
PA # 22-006/Cole-Liverpool # 6-3
Complete backfill/Photo No: 17

HMO Maint. Project 93-M08
PA # 22-006/Cole-Liverpool # 6-3
Completed backfill/Photo No: 20

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PA # 22-006/Cole-Liverpool # 6-3
Backfill material source area/Photo
No: 18

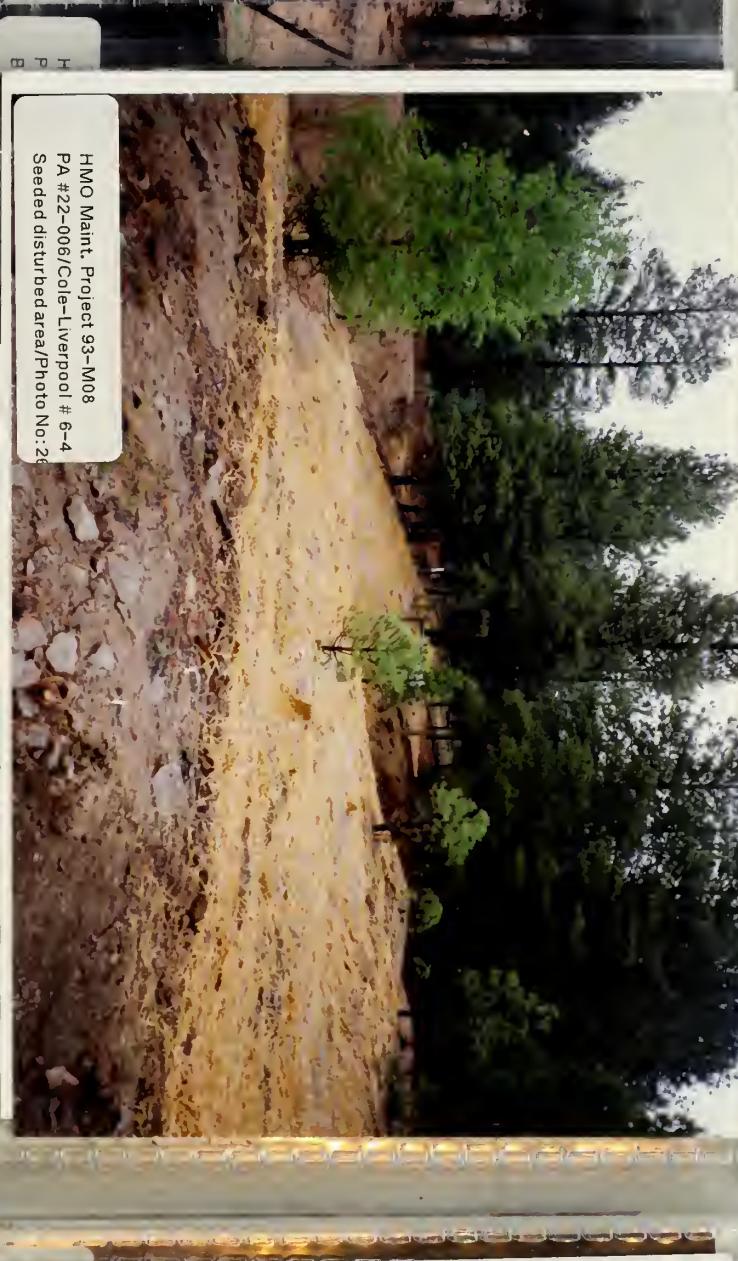
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PA # 22-006/Cole-Liverpool # 6-3
Graded material source area/Photo
No: 19



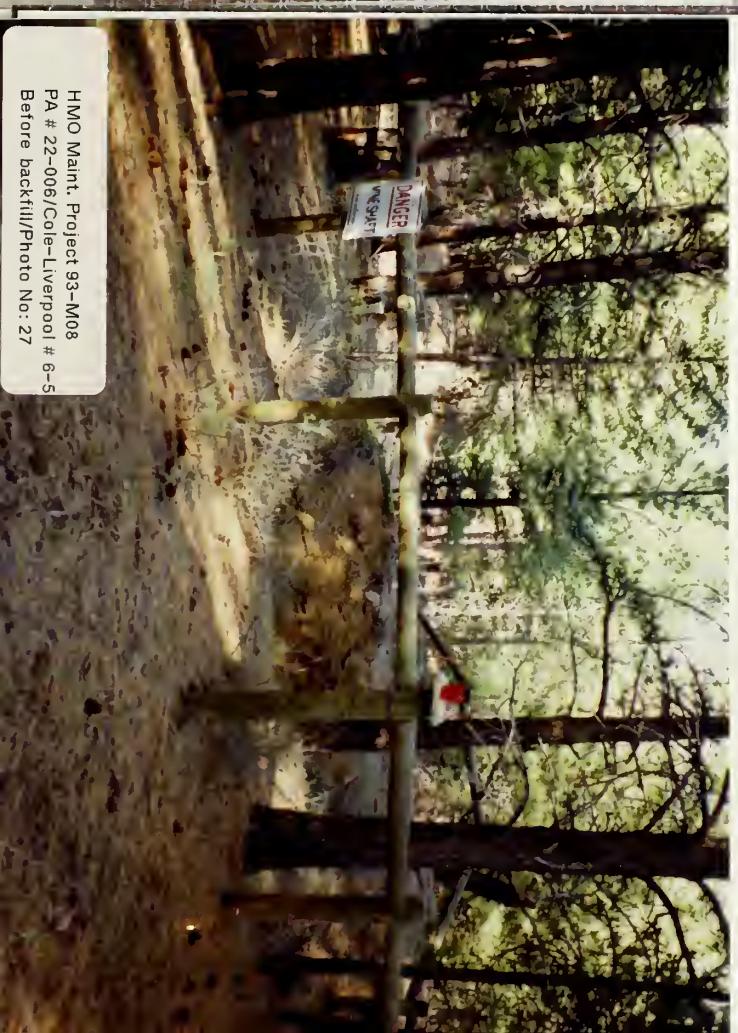
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PA # 22-006/Cole-Liverpool # 6-3
Seeded material source area/Photo
No: 21
Before backfill/Photo No: 22

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PA # 22-006/Cole-Liverpool # 6-4
Backfilling shaft/Photo No: 23

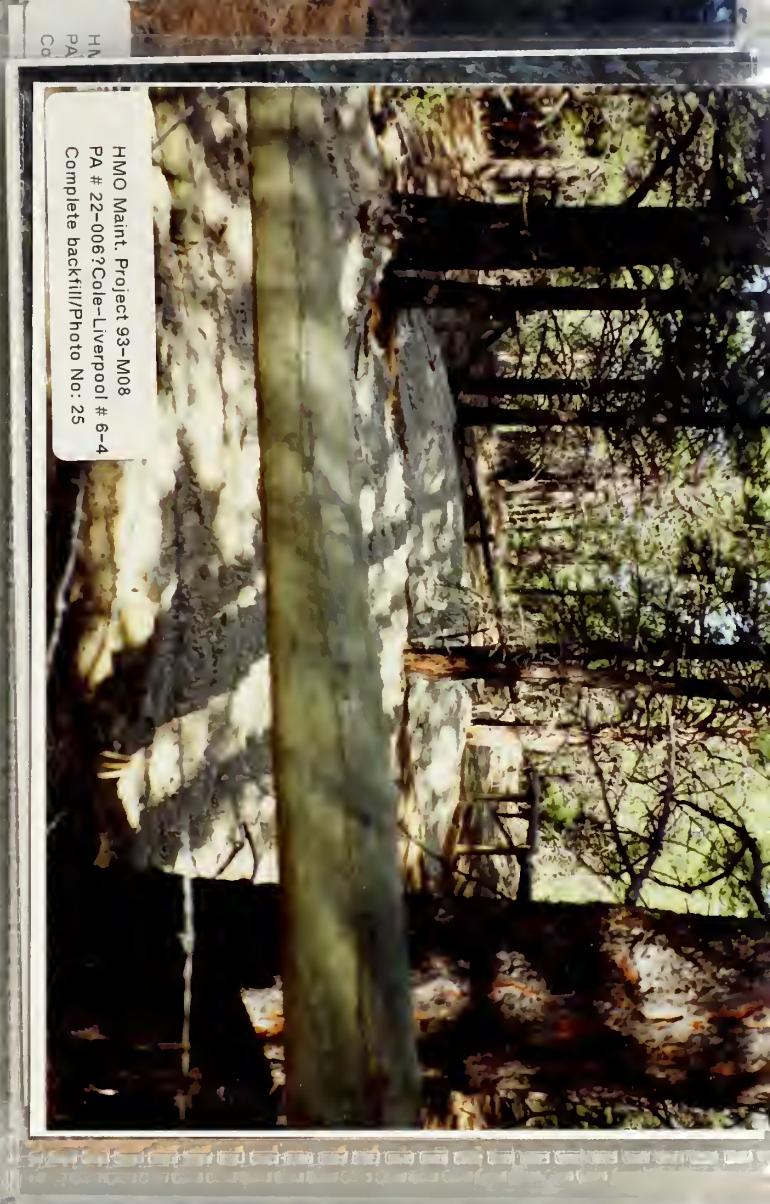
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PA # 22-006/Cole-Liverpool # 6-4
Backfilled shaft/Photo No: 24



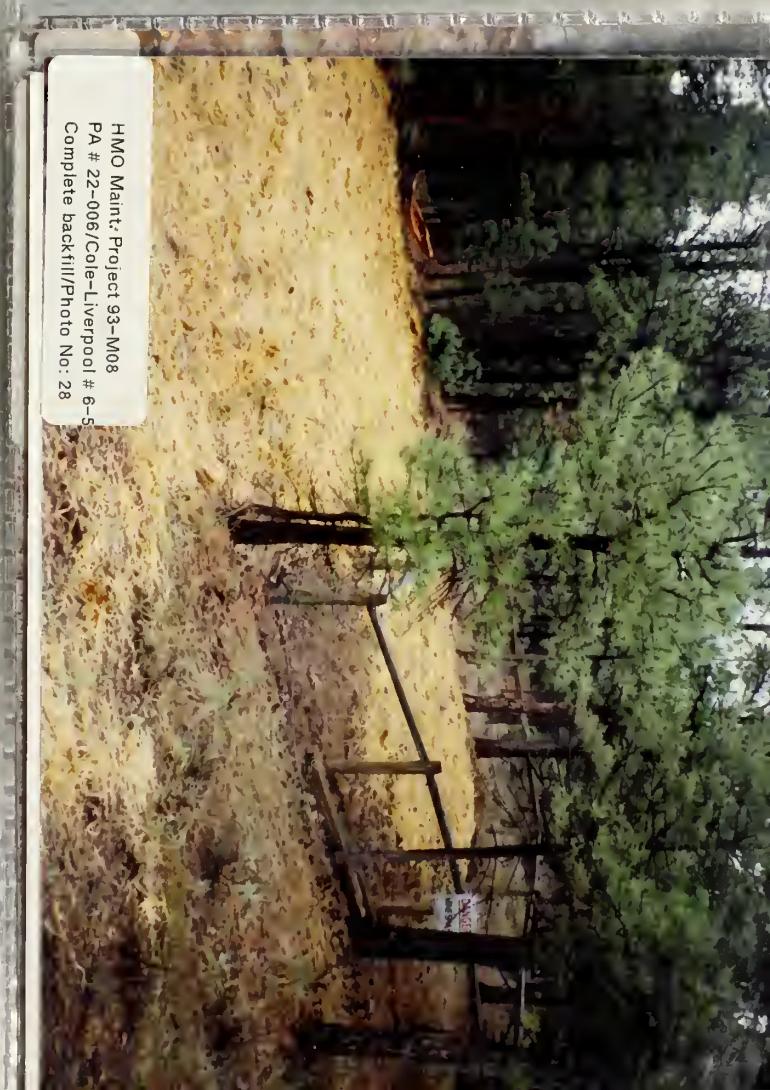
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PA #22-006/Cole-Liverpool # 6-4
Seeded disturbed area/Photo No:26



HMO Maint. Project 93-M08
PA # 22-006/Cole-Liverpool # 6-5
Before backfill/Photo No: 27



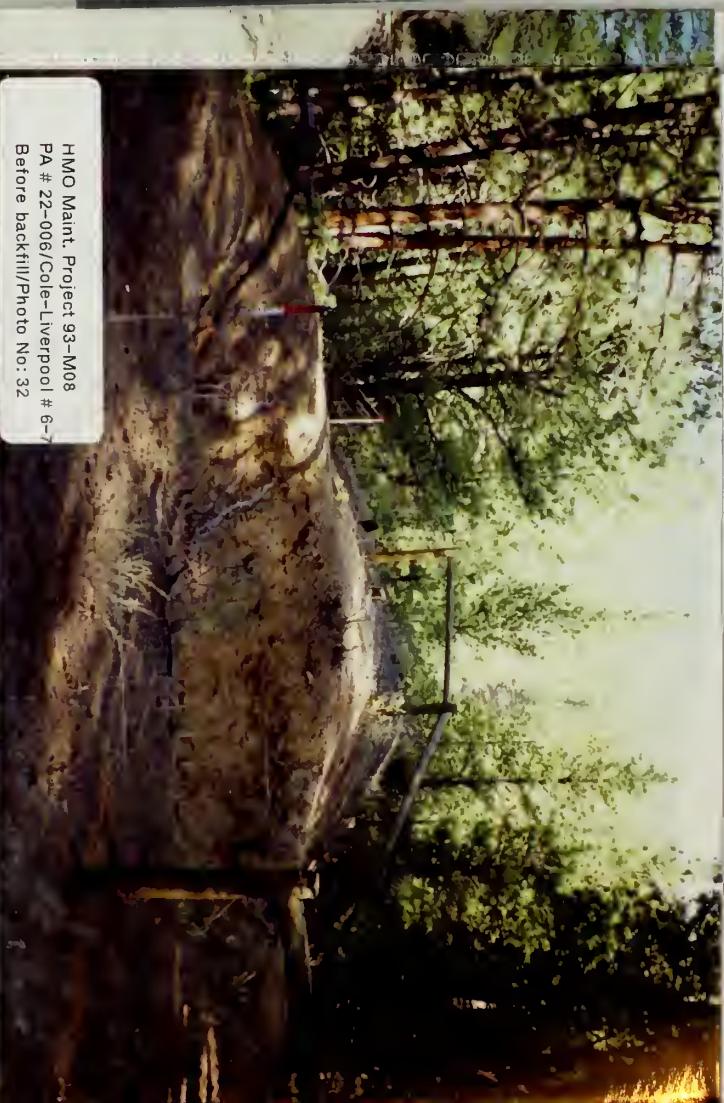
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PA # 22-0067/Cole-Liverpool # 6-4
Complete backfill/Photo No: 25



HMO Maint: Project 93-M08
PA # 22-006/Cole-Liverpool # 6-5
Complete backfill/Photo No: 28



HM
PA
See
No:
HMO Maint. Project 93-M08
PA # 22-006/Cole-Liverpool # 6-6
Before backfill/Photo No: 29



HM
PA # 22-006/Cole-Liverpool # 6-7
Before backfill/Photo No: 32

HN

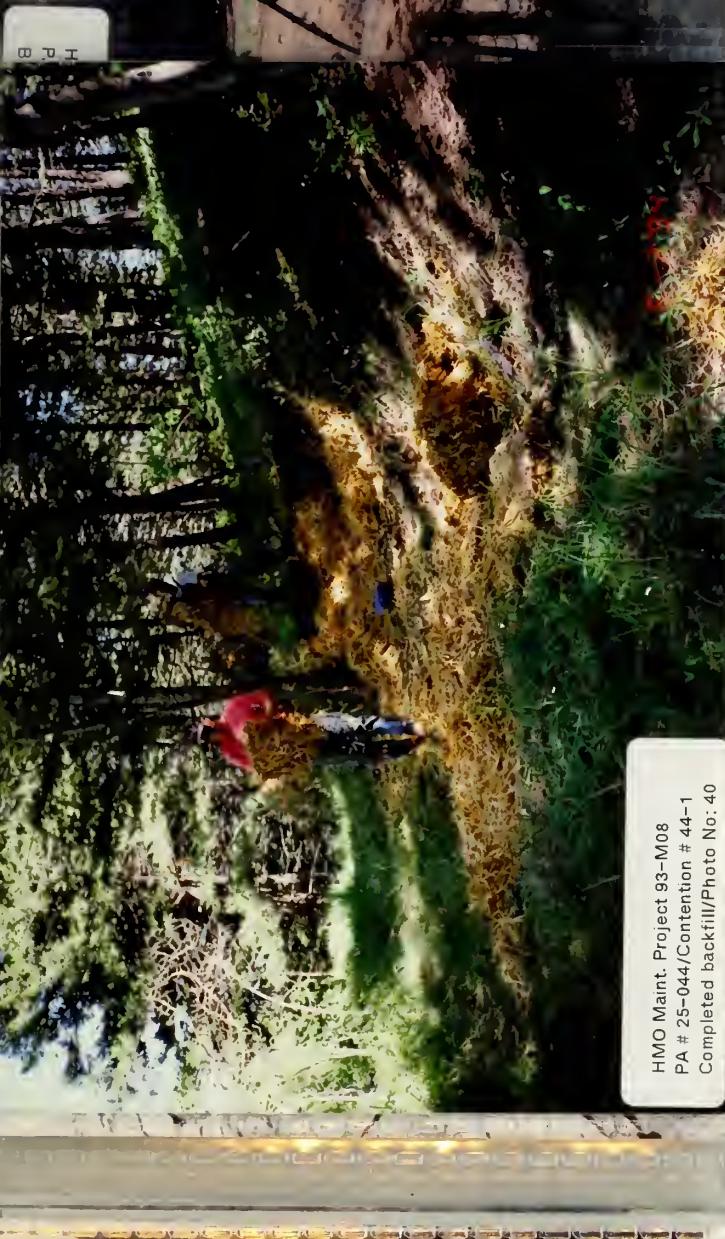
PA

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PA # 22-006/Cole-Liverpool # 6-6
Backfilling shaft/Photo No: 30

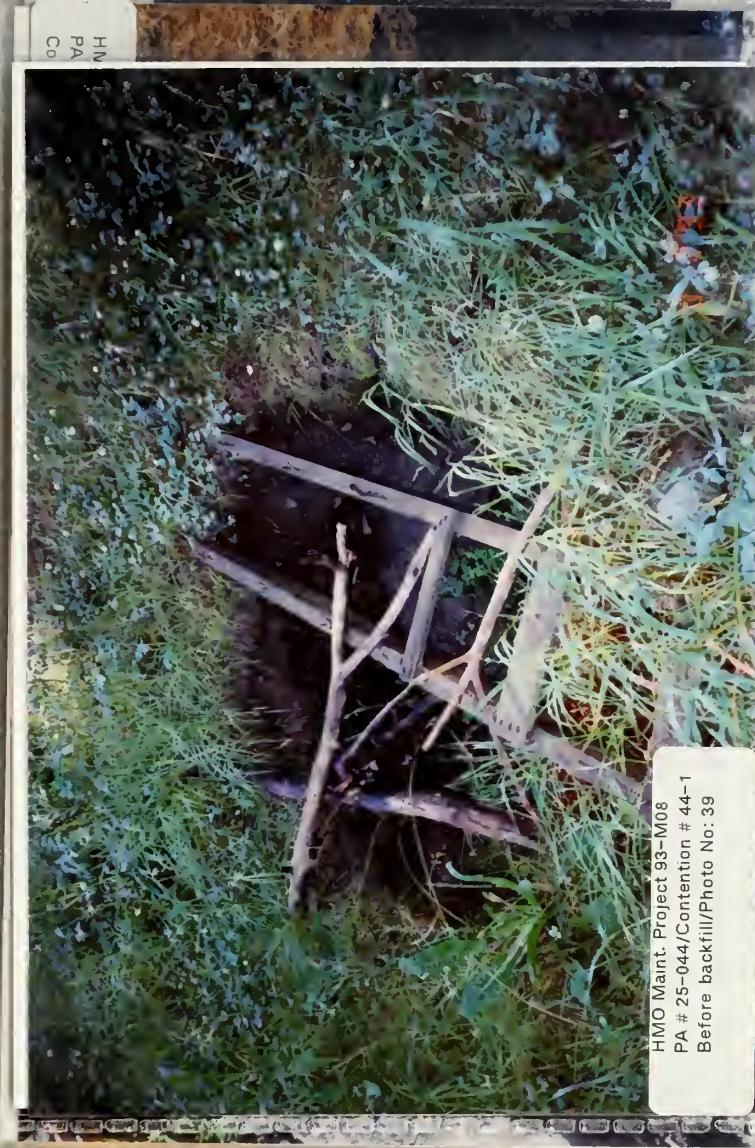
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PA

HMO Maint. Project 93-M08
PA # 22-006/Cole-Liverpool # 6-6
Complete backfill/Photo No: 31



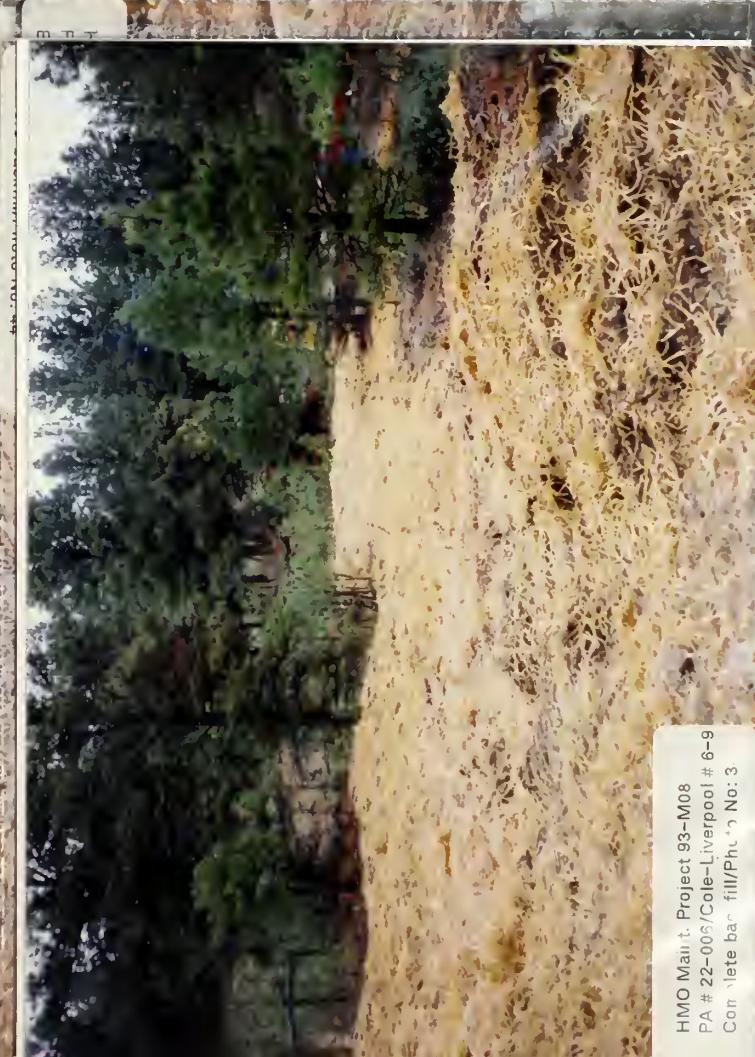
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PA # 22-006/Cole-Liverpool # 6-9
Before backfill/Photo No: 37



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PA # 25-044/Contention # 44-1
Before backfill/Photo No: 39



HMO Maint. Project 93-M08
PA # 22-006/Cole-Liverpool # 6-9
Before backfill/Photo No: 37



HMO Maint. Project 93-M08
PA # 22-005/Cole-Liverpool # 6-9
Complete back fill/Photo No: 3



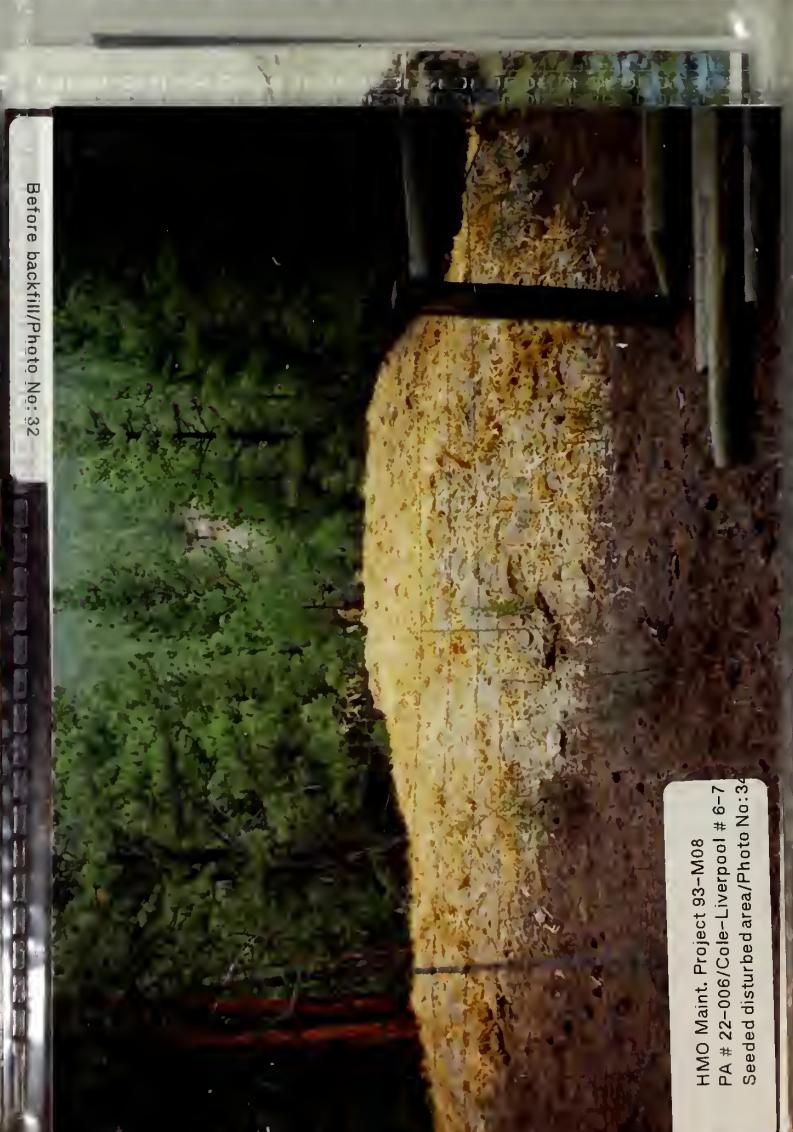
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PA # 22-006/Cole-Liverpool # 6-8
Complete backfill/Photo No: 36



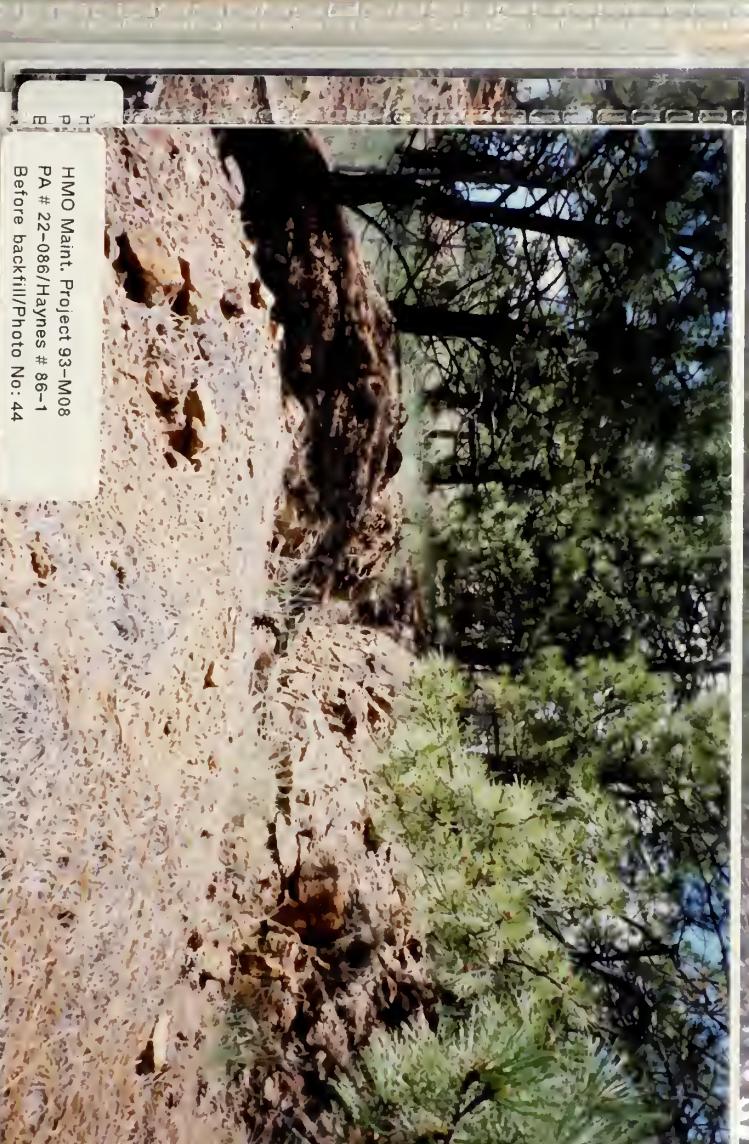
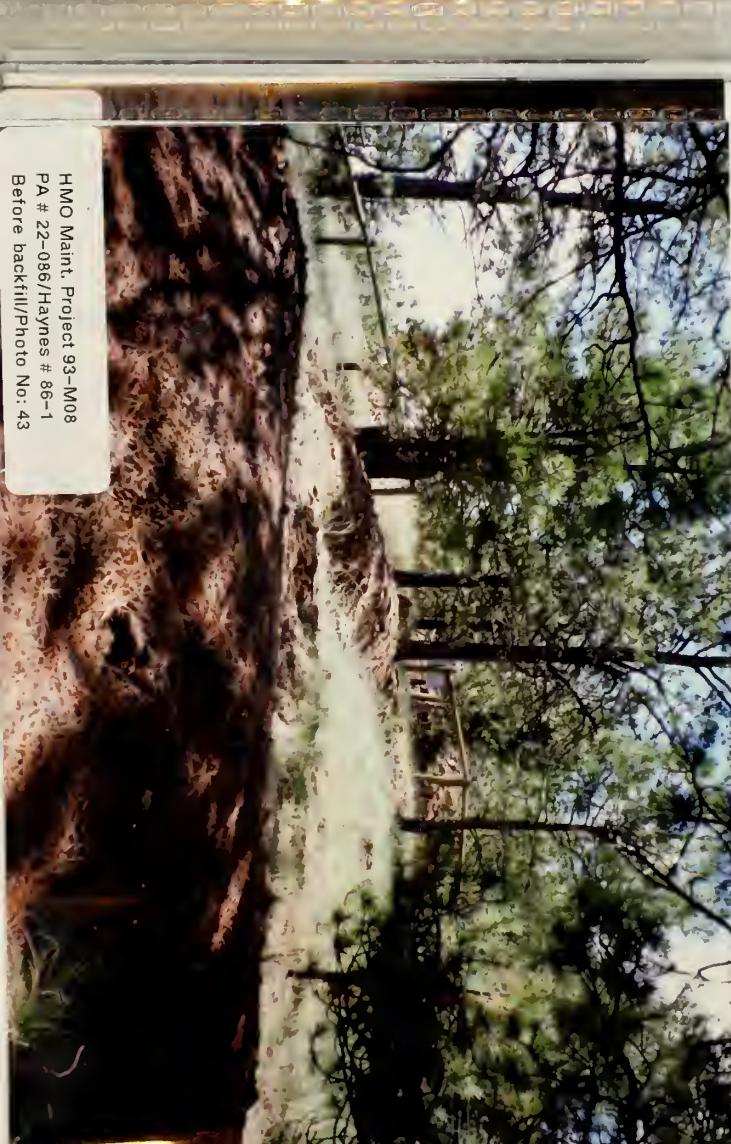
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PA # 22-006/Cole-Liverpool # 6-8
Before backfill/Photo No: 35



HMO Maint. Project 93-M08
PA # 22-006/Cole-Liverpool # 6-7
Backfilled shaft/Photo No: 33



HMO Maint. Project 93-M08
PA # 22-006/Cole-Liverpool # 6-7
Seeded disturbed area/Photo No: 32



HM
PA #
Completed repair/Photo No: 42

HMO Maint. Project 93-M08
PA # 25-190/Grizzly Gul. #190-1

HMO N
PA # 25-190/Grizzly Gul. #190-1
Before repair/Photo No: 41

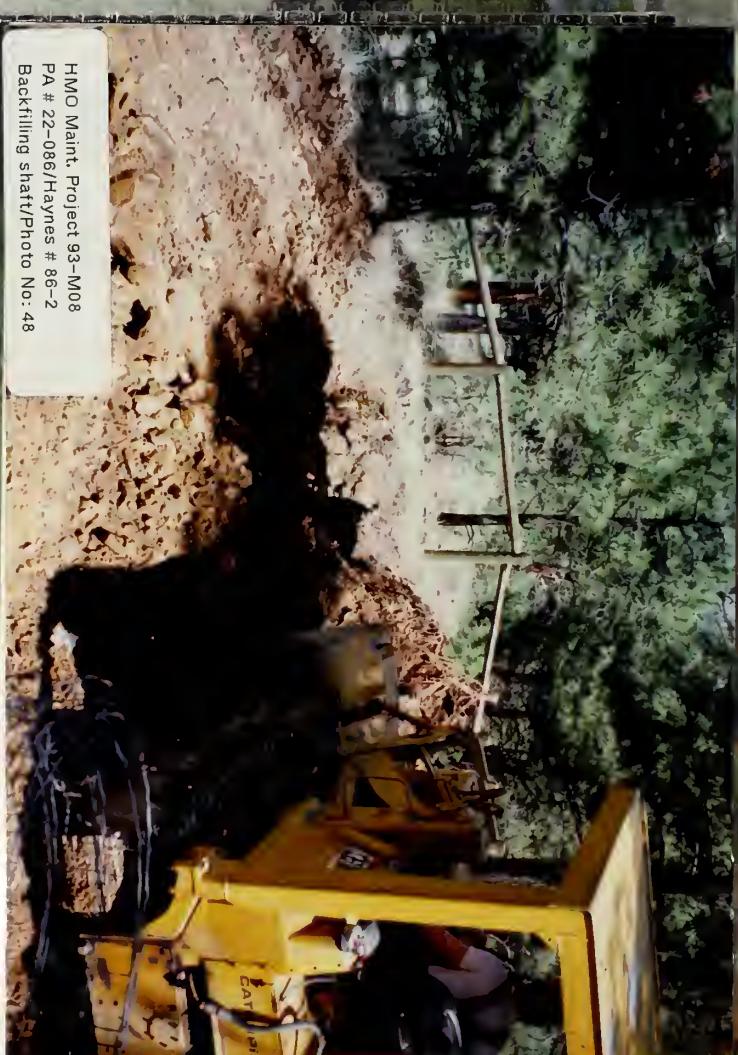
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PA # 22-086/Haynes # 86-1
Before backfill/Photo No: 43

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PA # 22-086/Haynes # 86-1
Before backfill/Photo No: 44

HMO Maint. Project 93-M08
PA # 22-086/Haynes # 86-1
Complete backfill/Photo No: 46



HMO Maint. Project 93-M08
PA # 22-086/Haynes # 86-2
Backfilling shaft/Photo No: 48



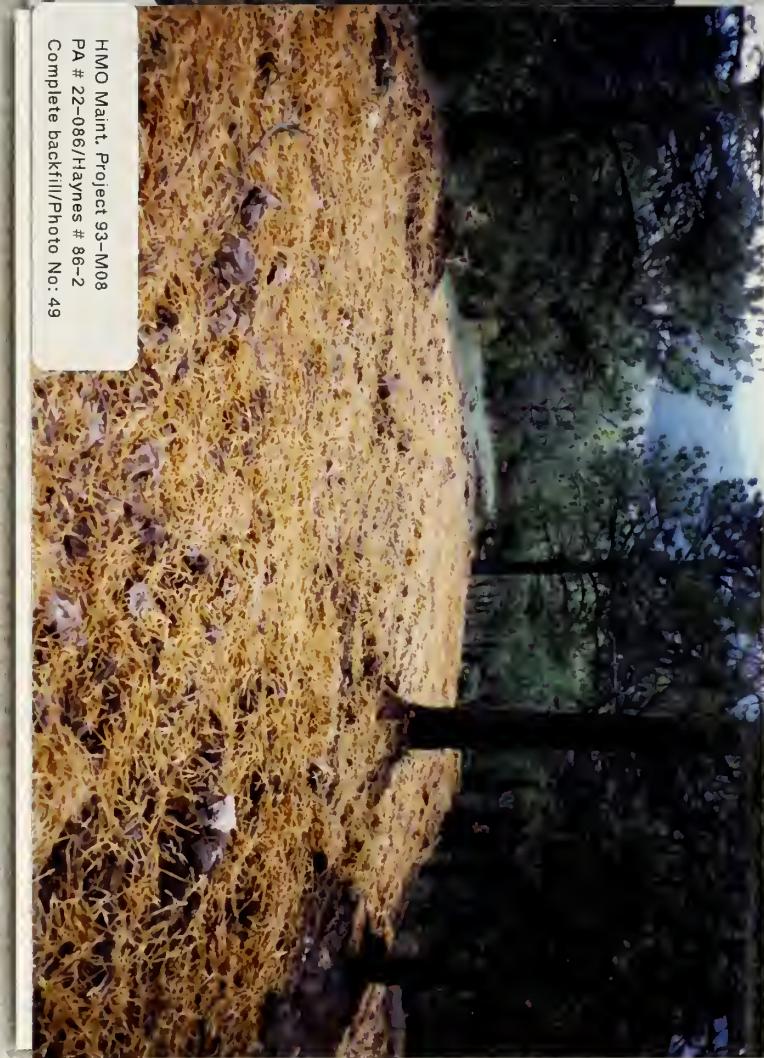
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PA # 22-086/Haynes # 86-2
Before backfill/Photo No: 47



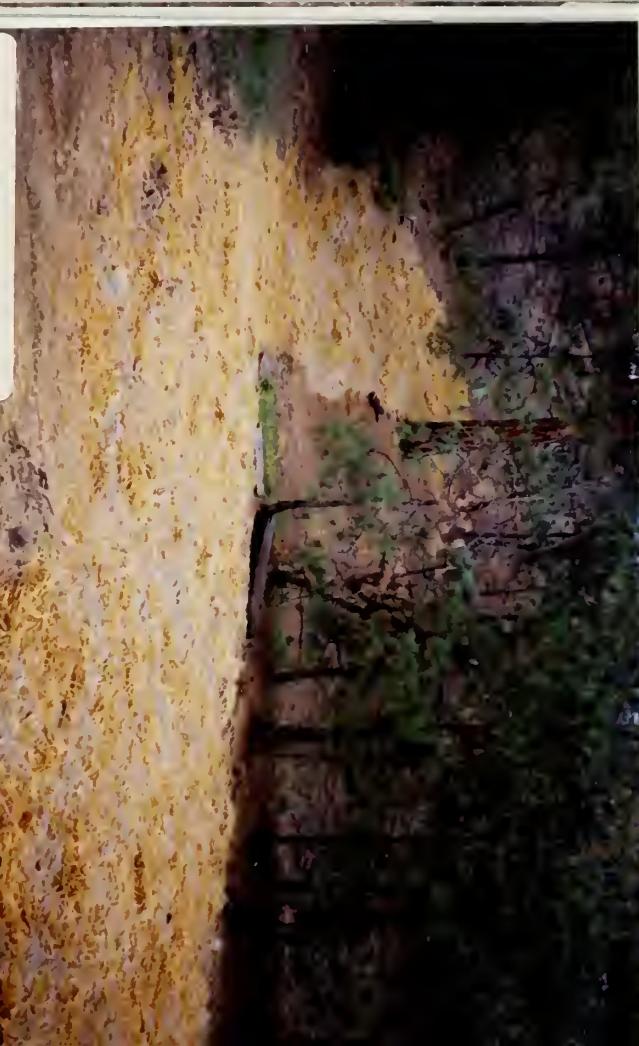
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PA # 22-086/Haynes # 86-3
Backfilling adit/Photo No: 50



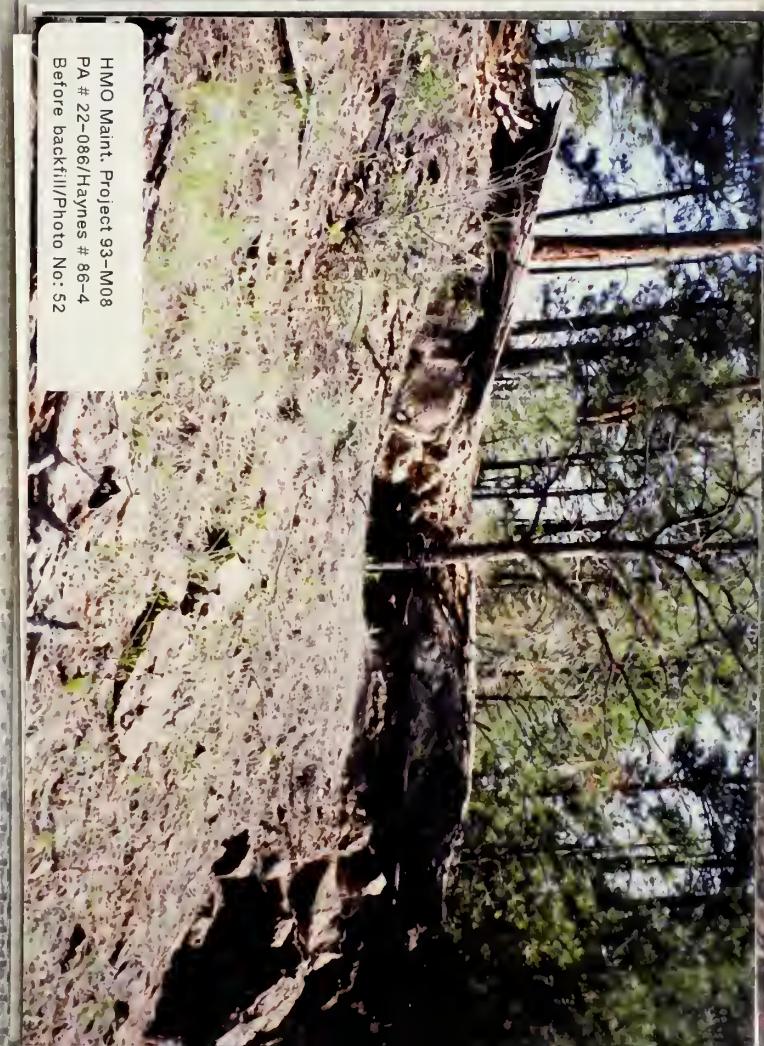
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PA # 22-086/Haynes # 86-2
Complete backfill/Photo No: 49



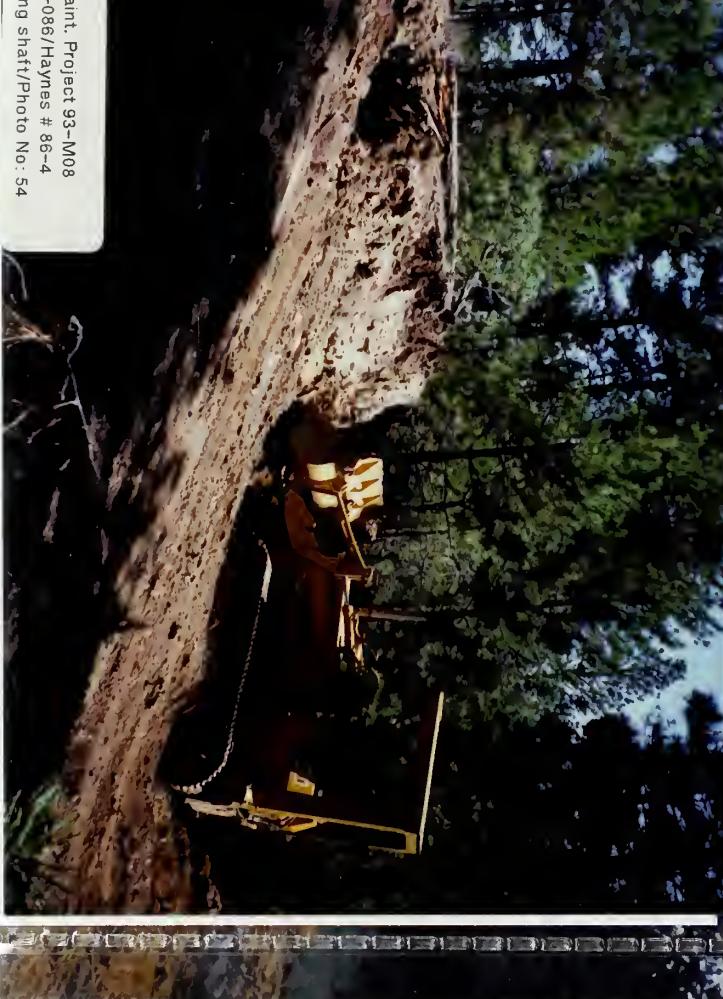
HMO Maint. Project 93-M08
PA # 22-086/Haynes # 86-3
Complete backfill/Photo No: 51



HMO Maint. Project 93-M08
PA # 22-086/Haynes # 86-4
Before backfill/Photo No: 52



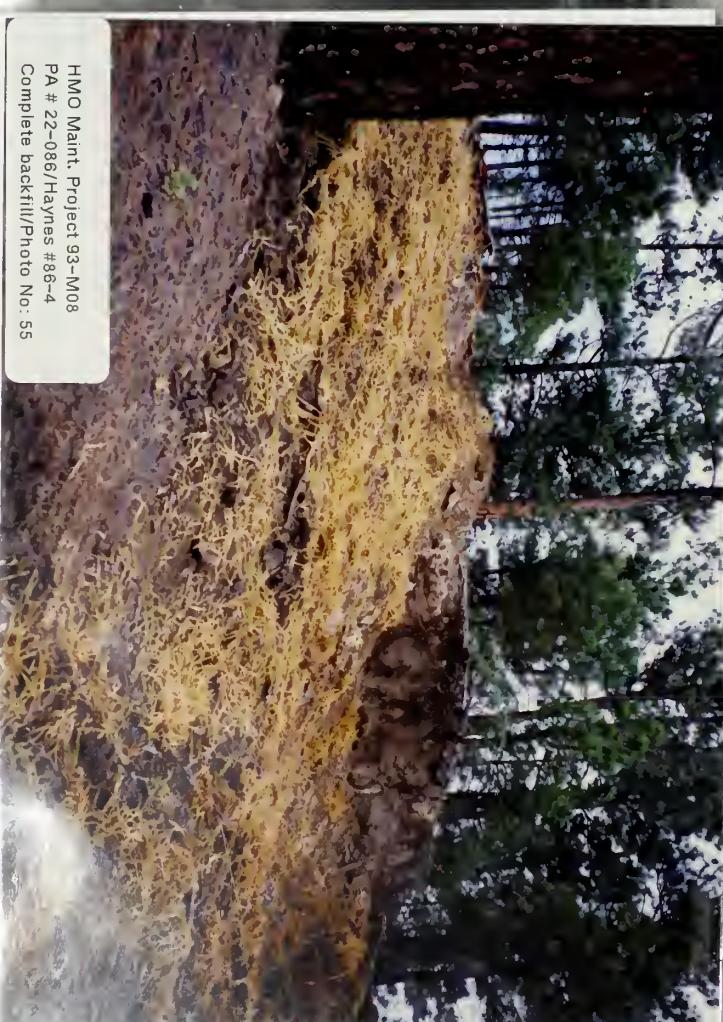
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PA # 22-086/Haynes # 86-4
Backfilling shaft/Photo No: 54



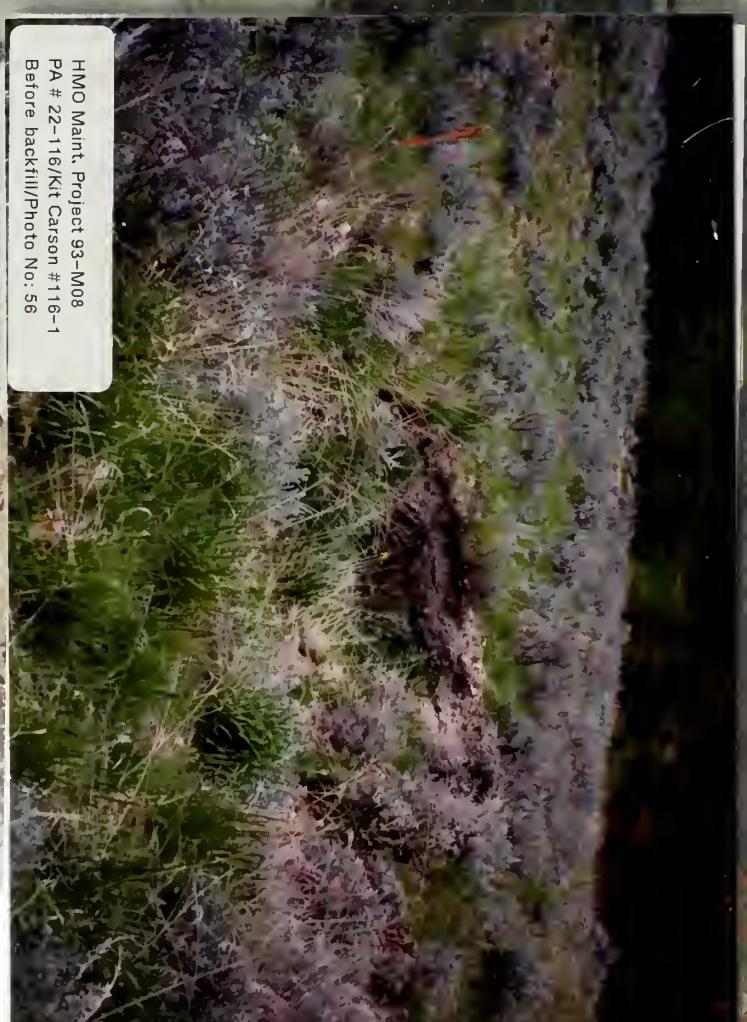
HMO Maint. Project 93-M08
PA # 22-086/Haynes # 86-4
Before backfill/Photo No: 53



HMO Maint. Project 93-M08
PA # 22-086/Haynes # 86-4
Complete backfill/Photo No: 55

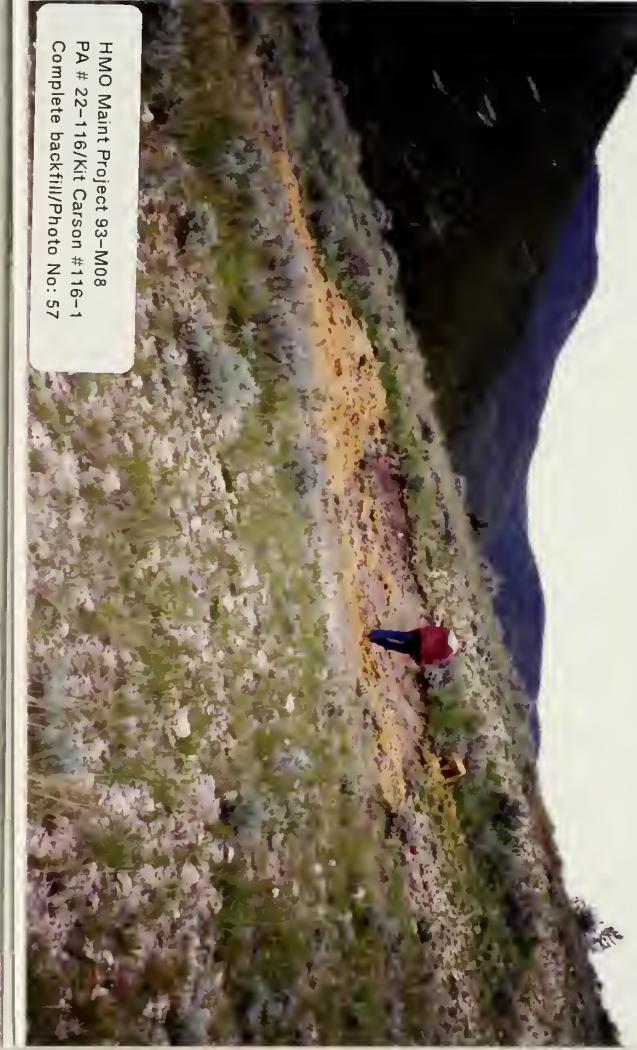
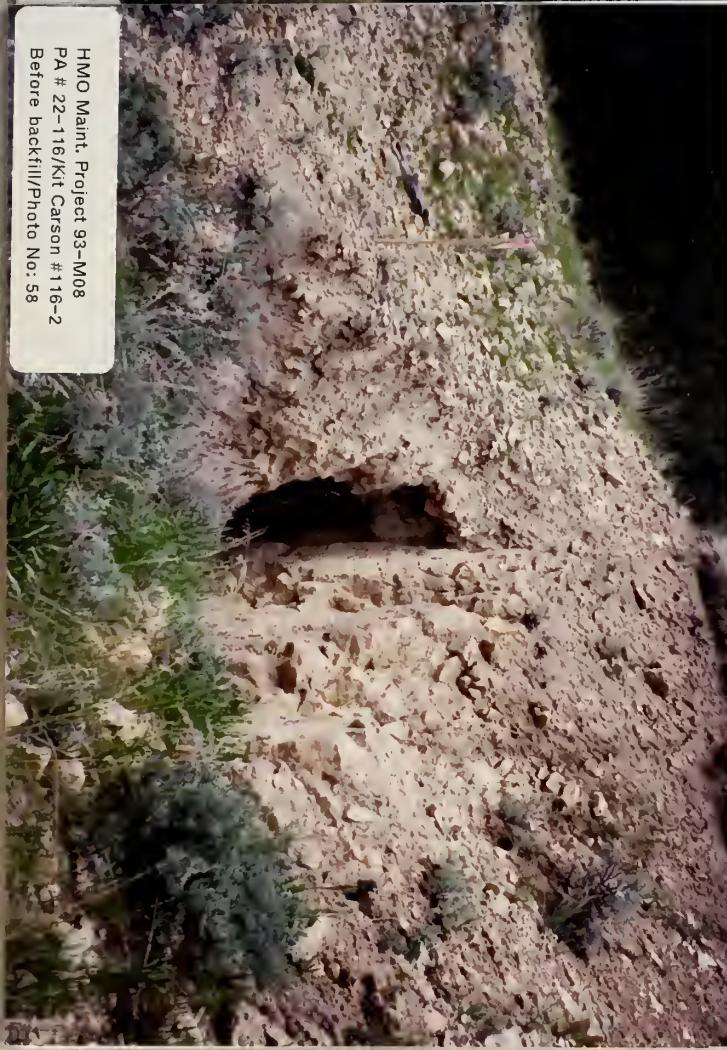


HMO Maint. Project 93-M08
PA # 22-116/Kit Carson #116-1
Before backfill/Photo No: 56

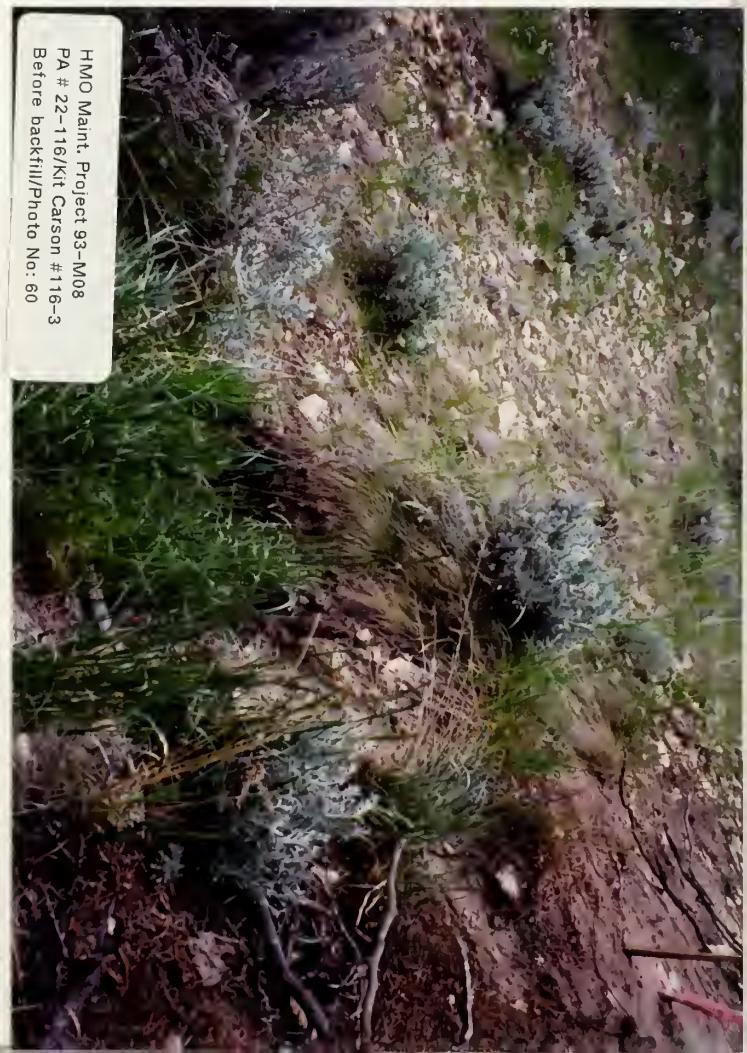


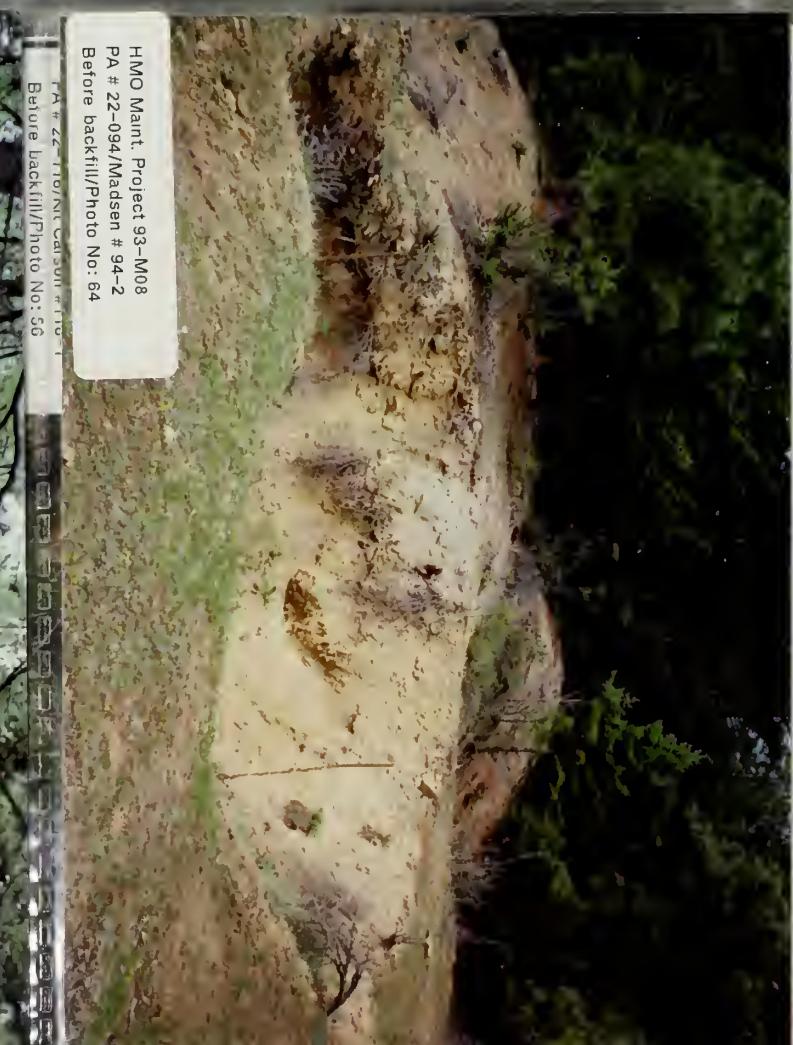
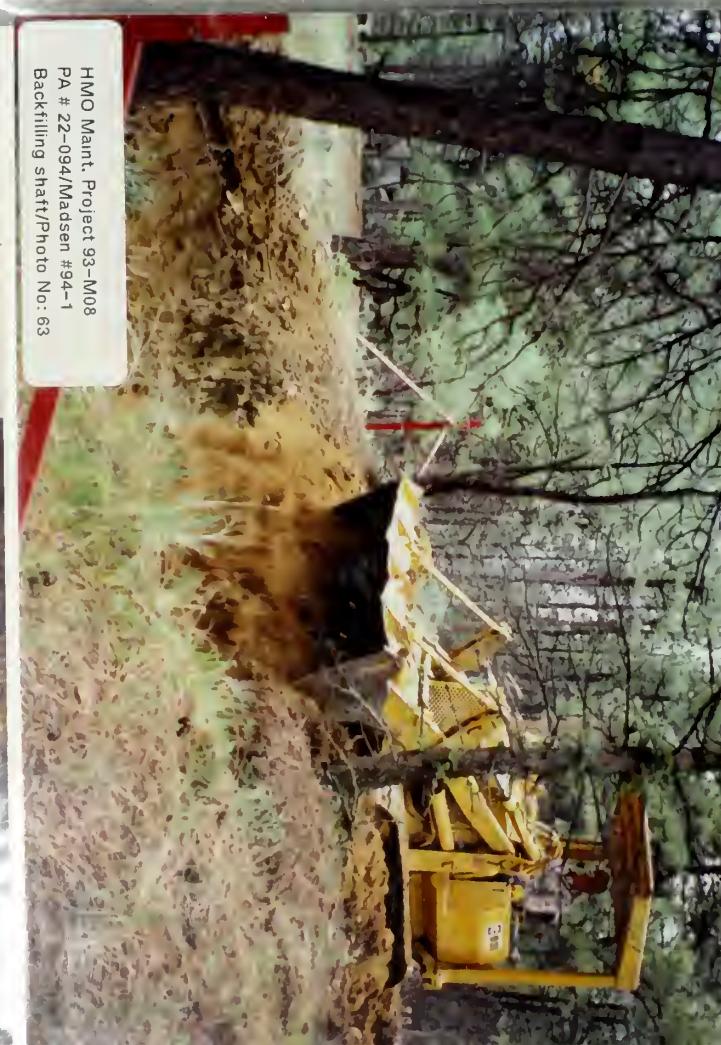
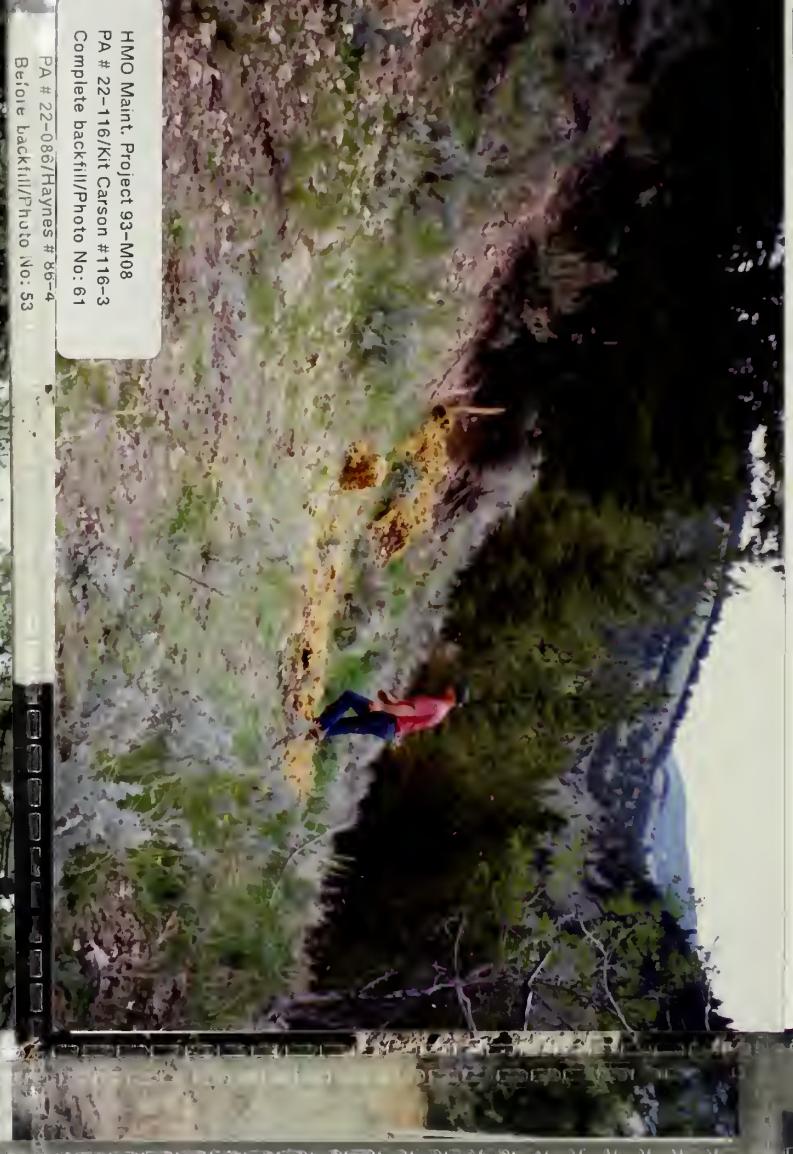
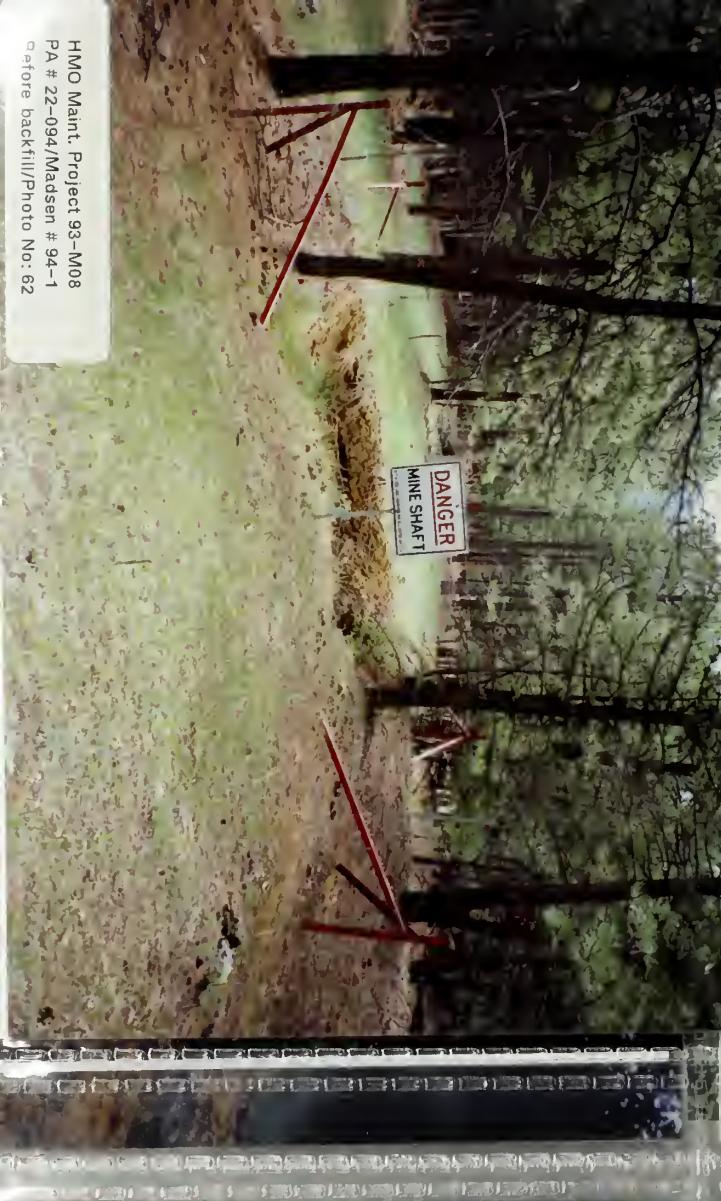
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PA # 22-116/Kit Carson #116-1
Before backfill/Photo No: 58

HMO Maint. Project 93-M08
PA # 22-116/Kit Carson #116-2
Before backfill/Photo No: 59



HMO Maint. Project 93-M08
PA # 22-116/Kit Carson #116-3
Before backfill/Photo No: 60





HMO Maint. Project 93-M08
PA # 22-094/Madsen # 94-1
Before backfill/Photo No: 62

HMO Maint. Project 93-M08
PA # 22-094/Madsen # 94-1
Backfilling shaft/Photo No: 63

HMO Maint. Project 93-M08
PA # 22-116/Kit Carson # 116-3
Complete backfill/Photo No: 61

PA # 22-086/Haynes # 86-4
Before backfill/Photo No: 53

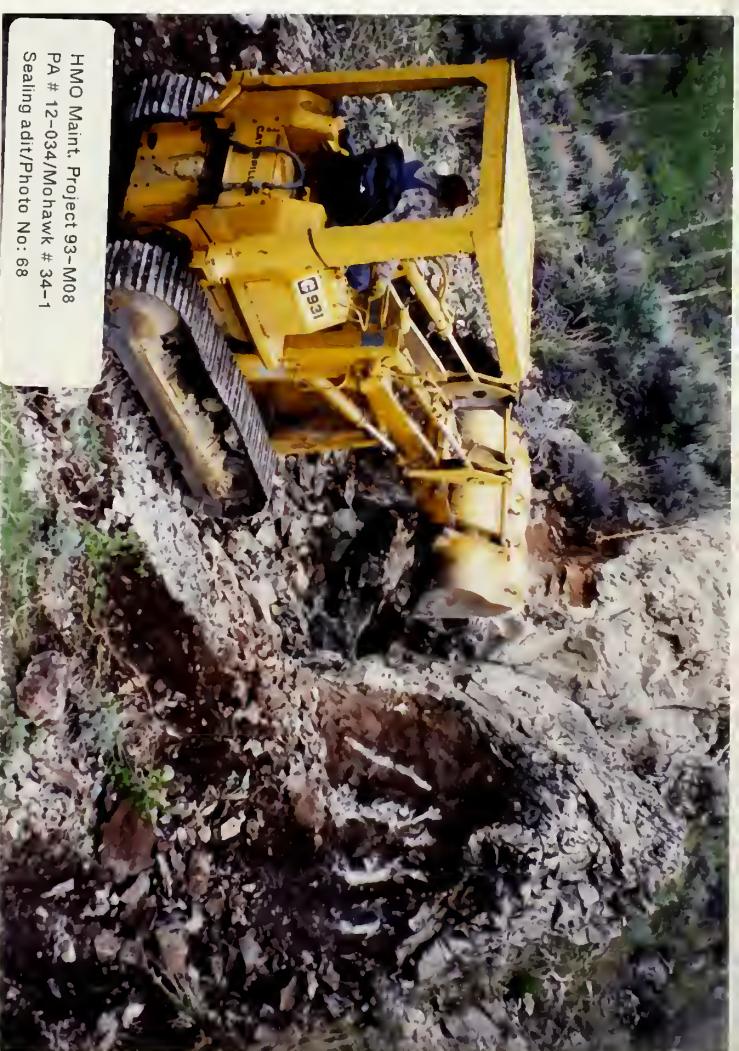
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PA # 22-094/Madsen # 94-2
Before backfill/Photo No: 64

PA # 22-110/Kit Carson # 110-1
Before backfill/Photo No: 56

HMO Maint. Project 93-M08
PA # 22-094/Madsen # 94-2
Seeded area/Photo No: 66



HMO Maint. Project 93-M08
PA # 12-034/Mohawk # 34-1
Before seal/Photo No: 67



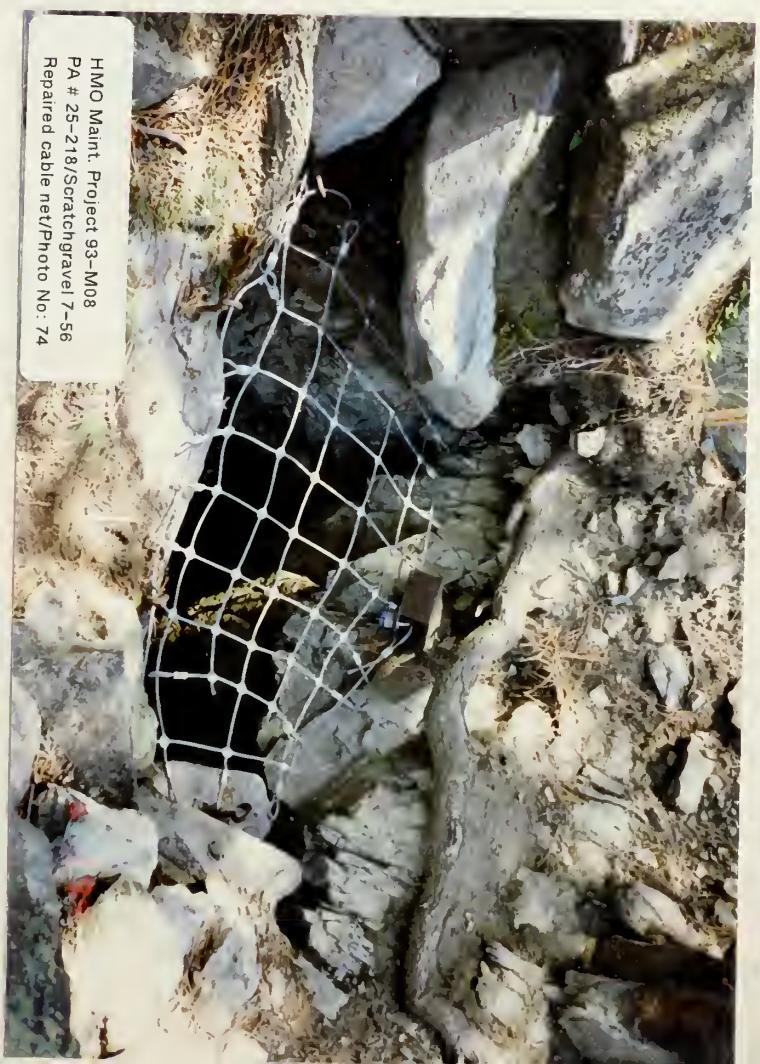
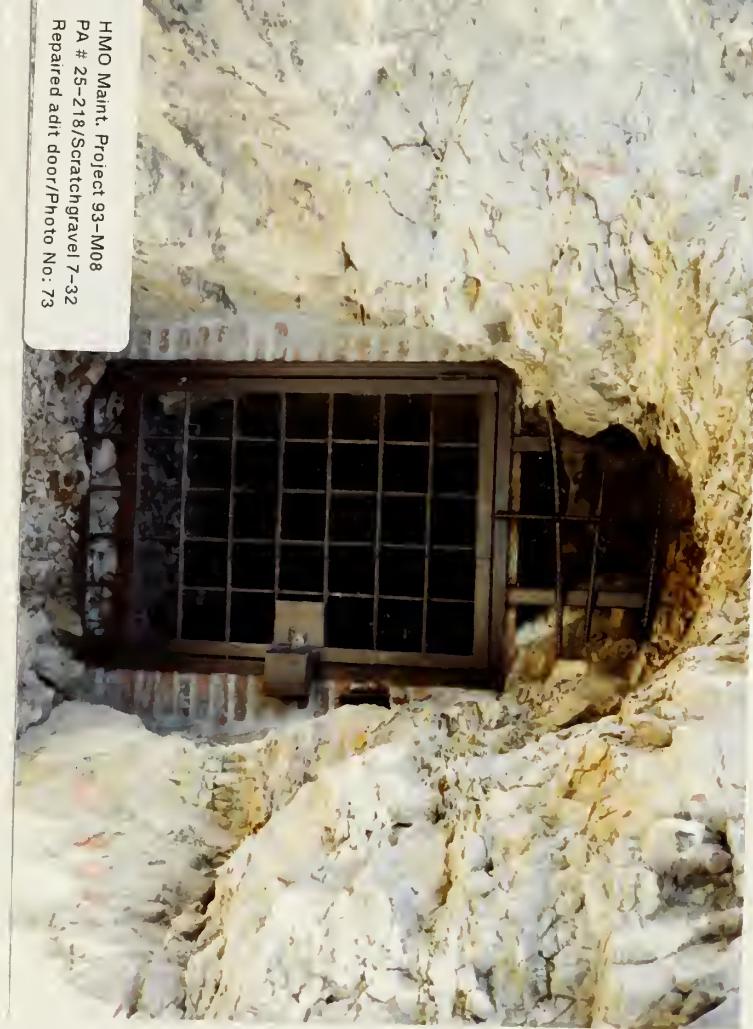
HMO Maint. Project 93-M08
PA # 22-094/Madsen # 94-2
Complete backfill/Photo No: 65

HMO Maint. Project 93-M08
PA # 25-218/Scratch gravel 7-29
Repaired cable net/Photo No: 70

HMO Maint. Project 93-M08
PA # 25-218/Scratch Gravel 7-30
Repaired cable net/Photo No: 71

HMO Maint. Project 93-M08
PA # 12-034/Mohawk # 34-1
Complete seal/Photo No: 69

HMO Maint. Project 93-M08
PA # 25-218/Scratch gravel 7-31
Repaired cable net/Photo No: 72



רשותן כבודה רשותן כבודה

סמלים

רשותן כבודה רשותן כבודה

סמלים

13

10

